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Systems Applications, Inc., San Rafael, CA

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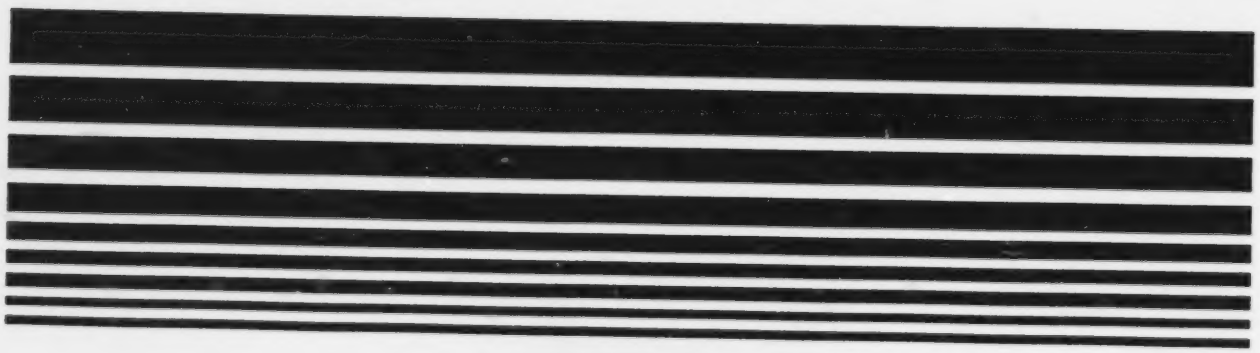
URBAN AIRSHED MODEL STUDY OF FIVE CITIES

Low-Cost Application of the Model to Future-Year SIP Control and Alternative Fuel Strategies for Dallas-Fort Worth, Atlanta, Philadelphia, and St. Louis

(Volume II: Appendices B-II)



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(Volume II: Appendices B-II)

By

Ralph E. Morris
Marianne C. Causley
Julie L. Fieber
Lu Ann Gardner
Thomas C. Myers

Systems Applications, Inc.
101 Lucas Valley Road
San Rafael, CA 94903

EPA Project Officers:

John C. Chamberlin, Office of Policy Planning and Evaluation
Richard D. Scheffe, Office of Air Quality Planning and Standards

OFFICE OF AIR QUALITY PLANNING AND STANDARDS

U. S. ENVIRONMENTAL PROTECTION AGENCY

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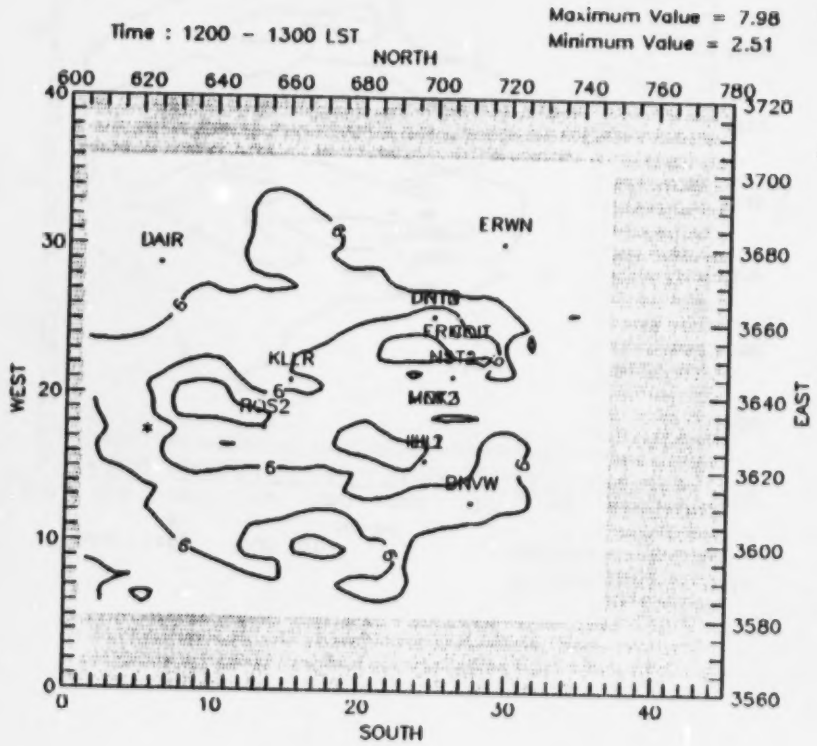
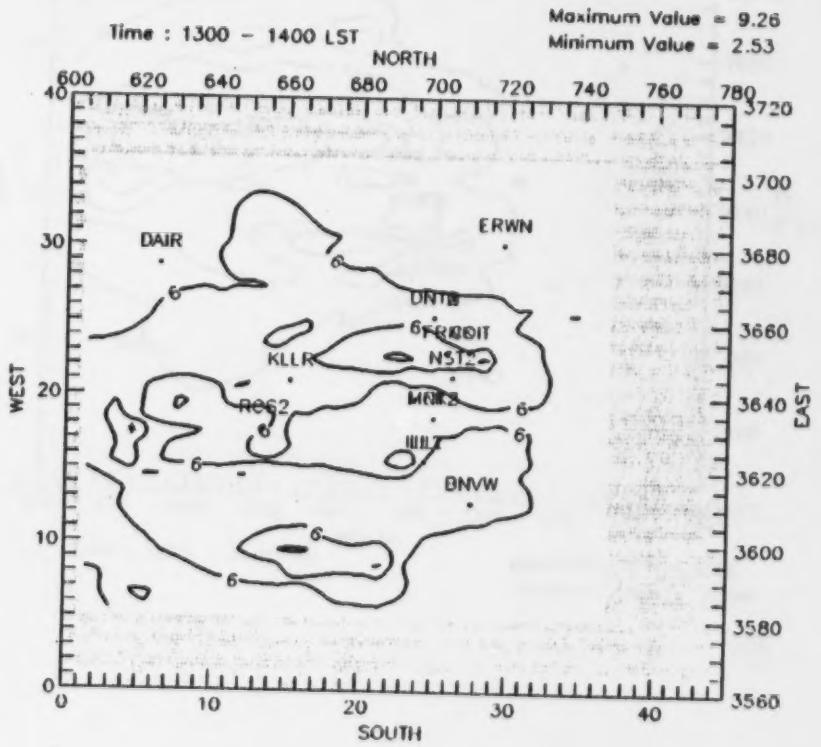
Appendix B

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR DALLAS-FORT WORTH 1995 BASE CASE EMISSION SCENARIO





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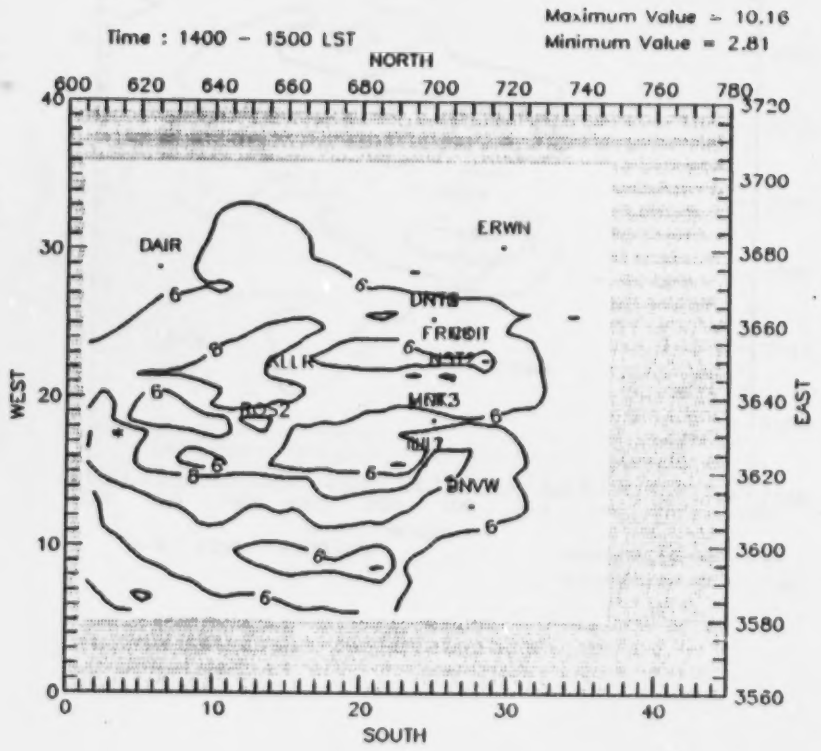

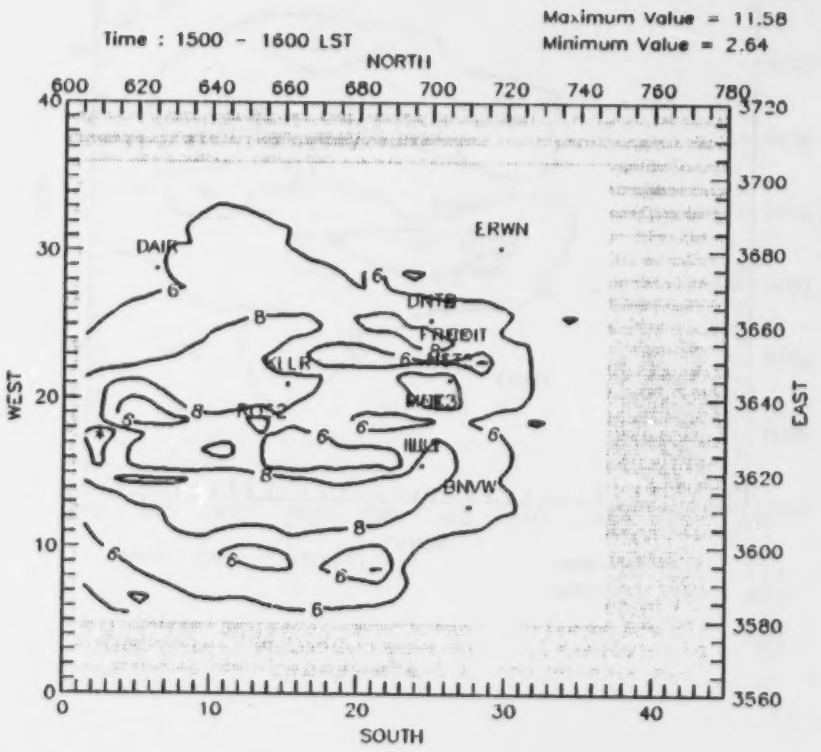

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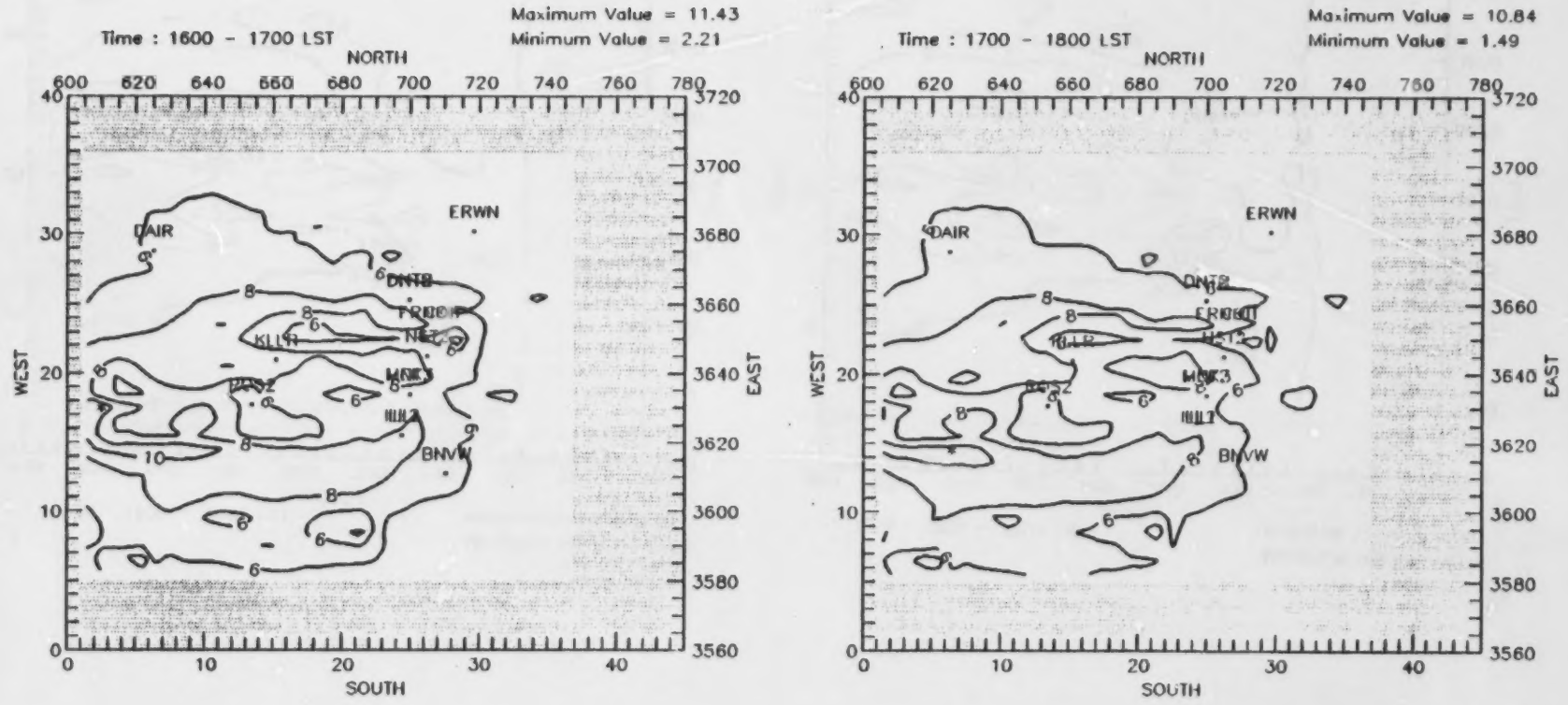

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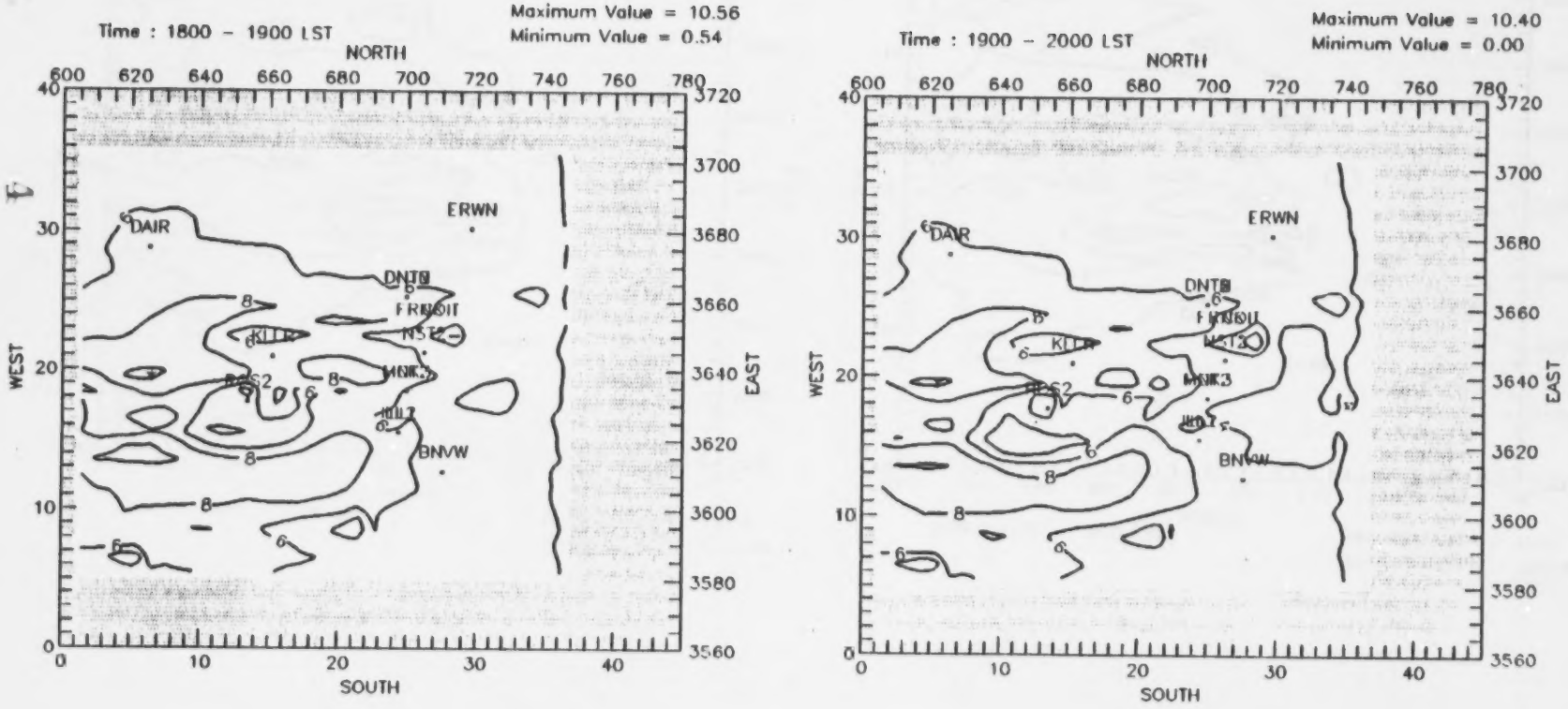

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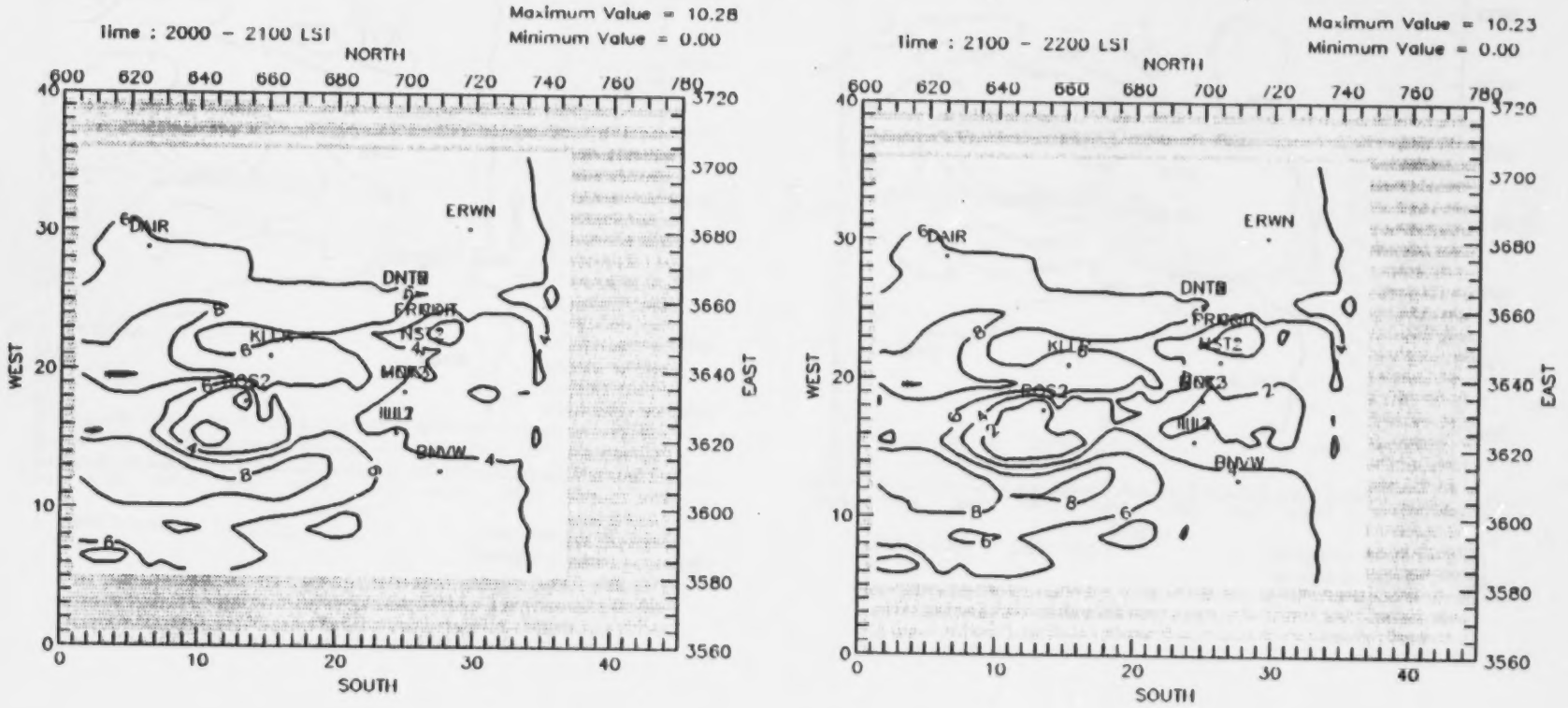

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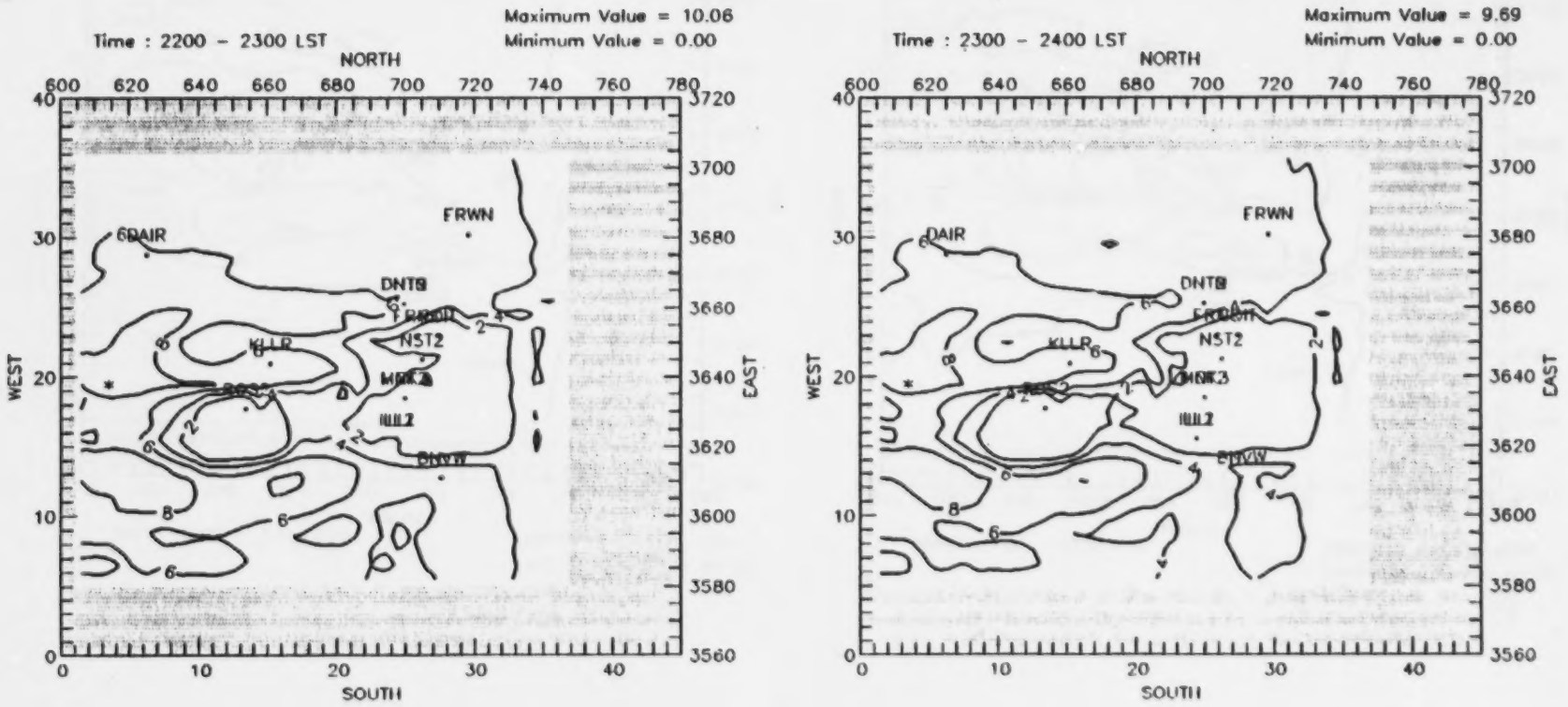

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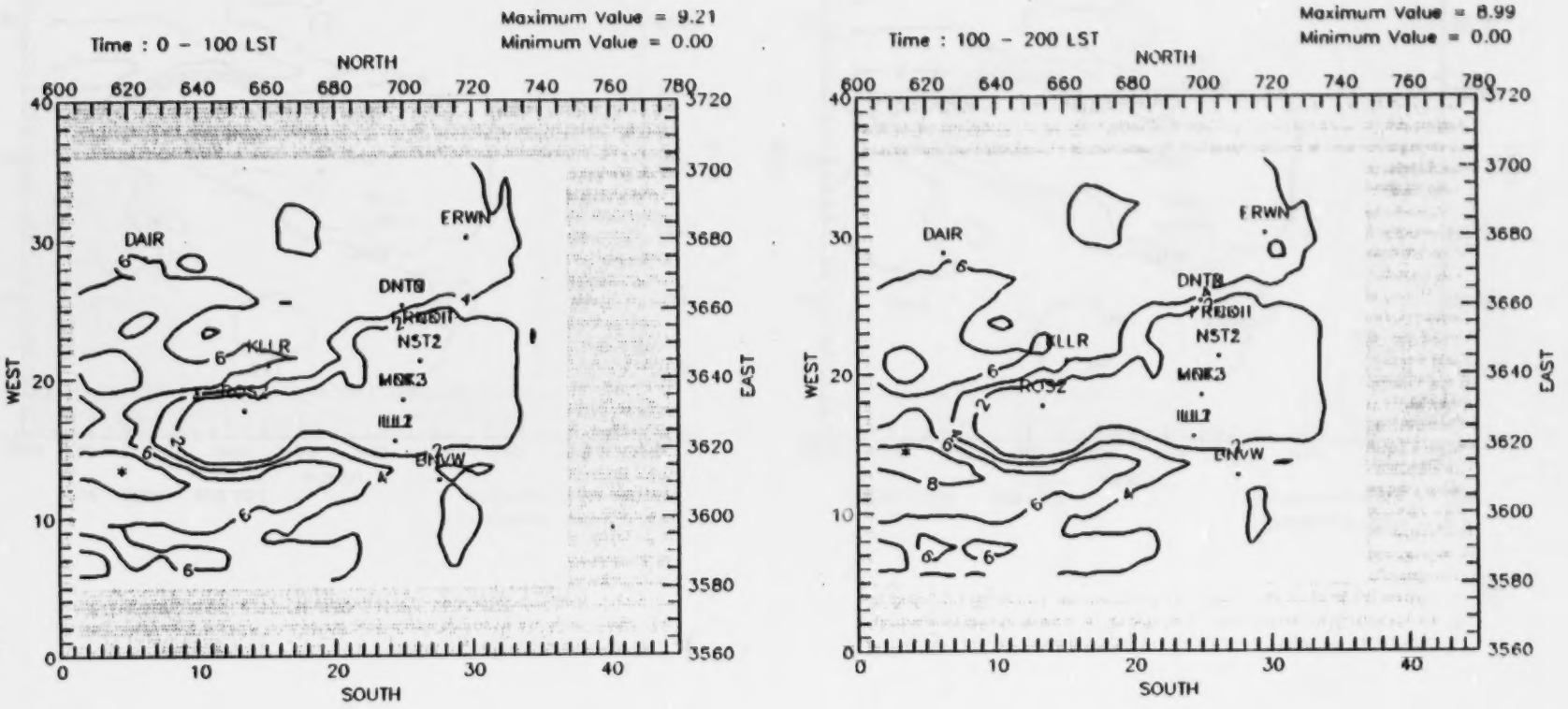

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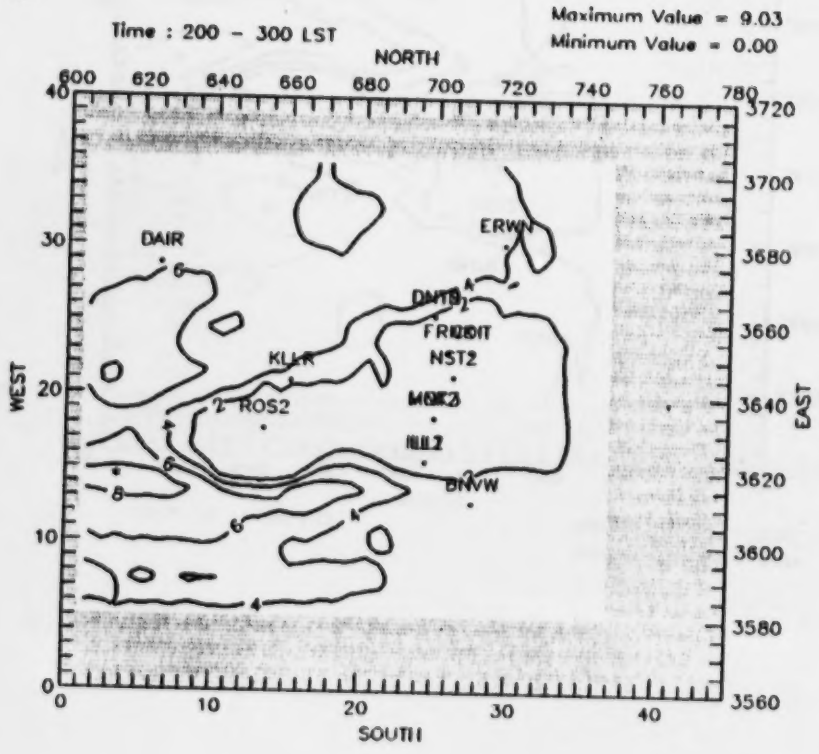

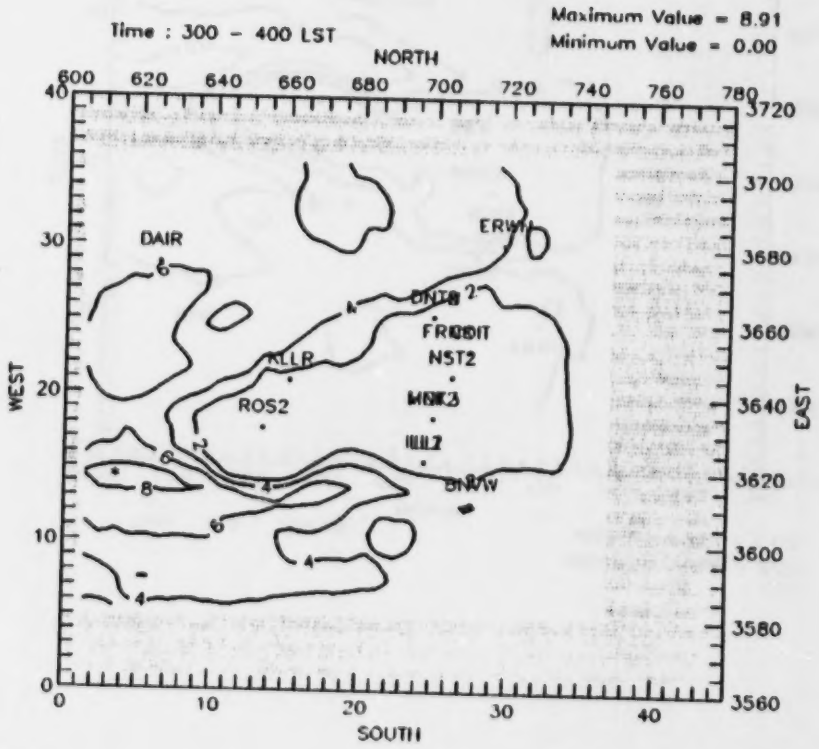

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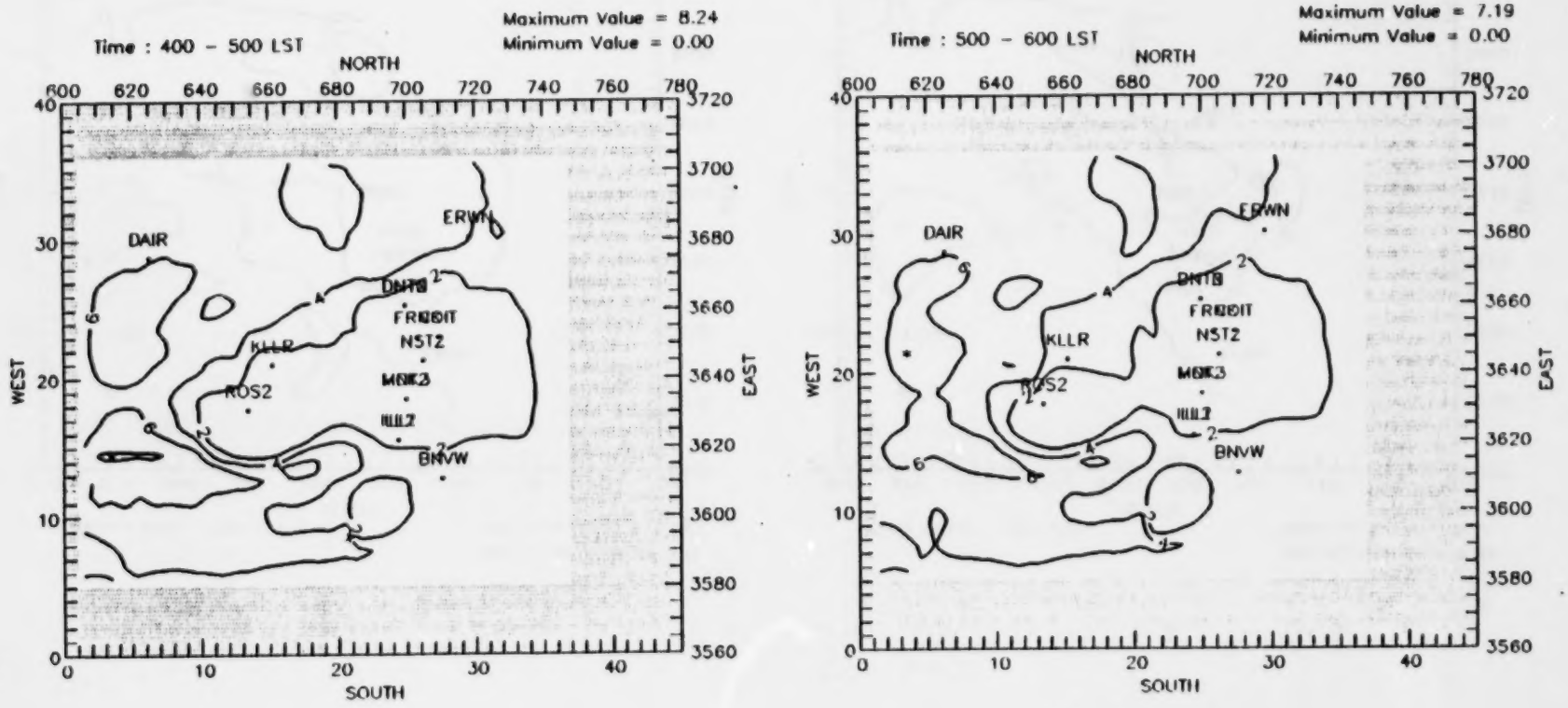

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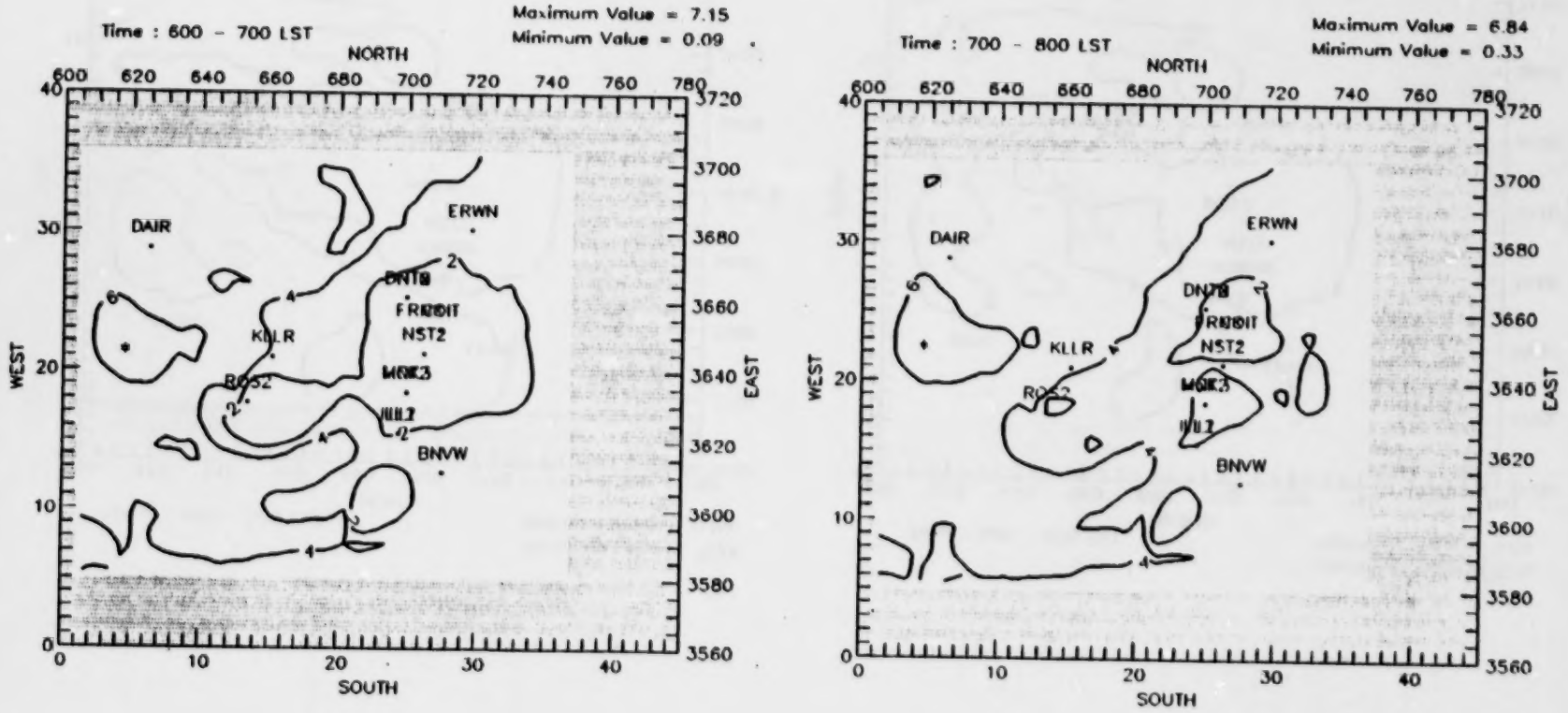

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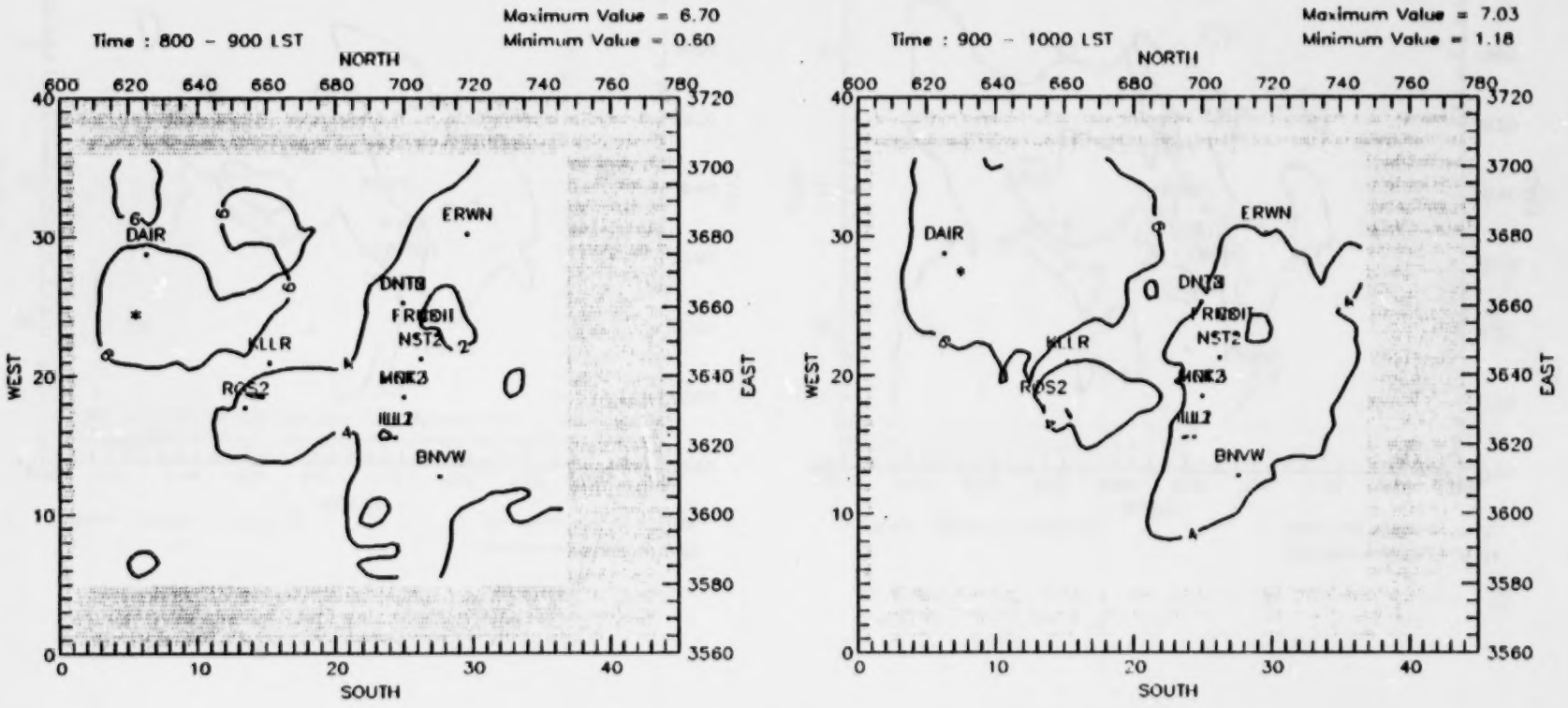

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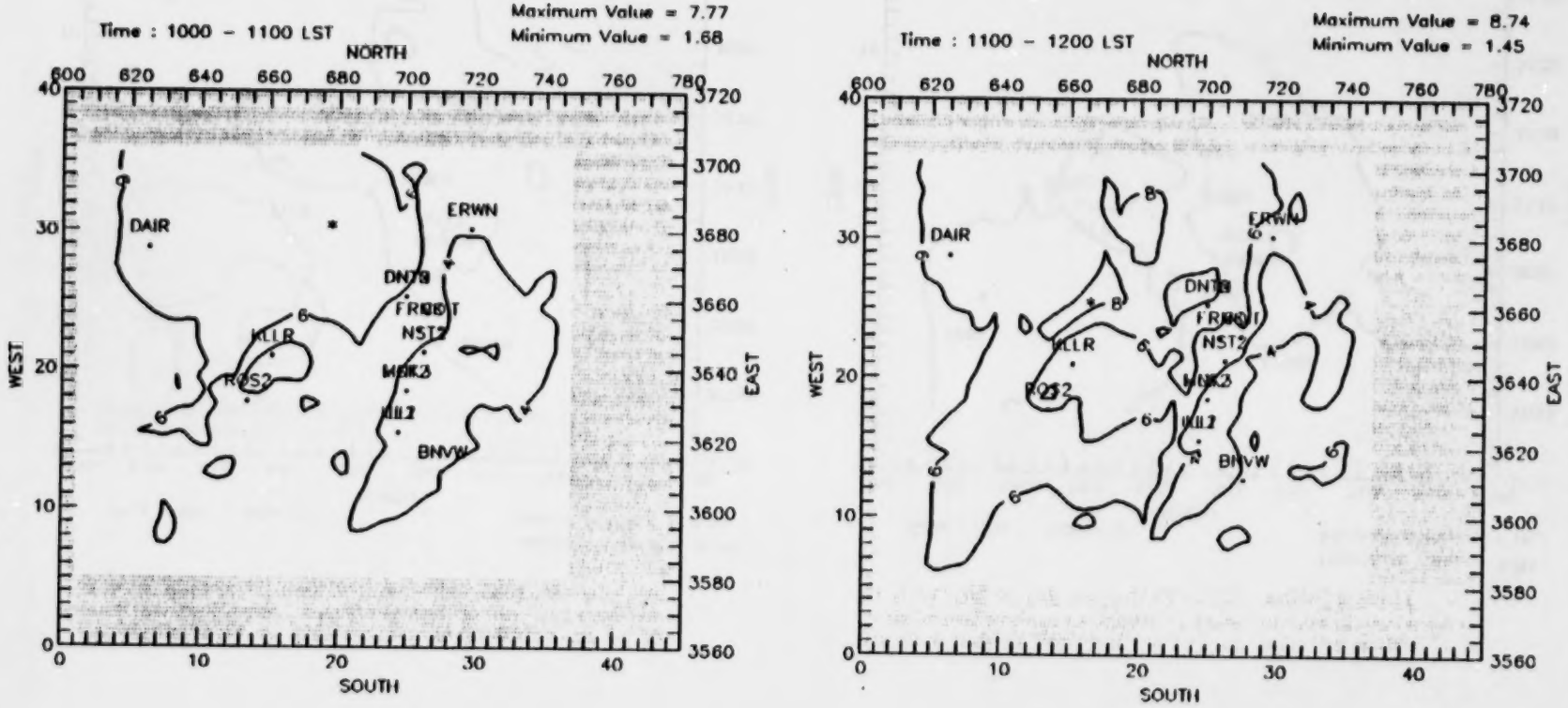

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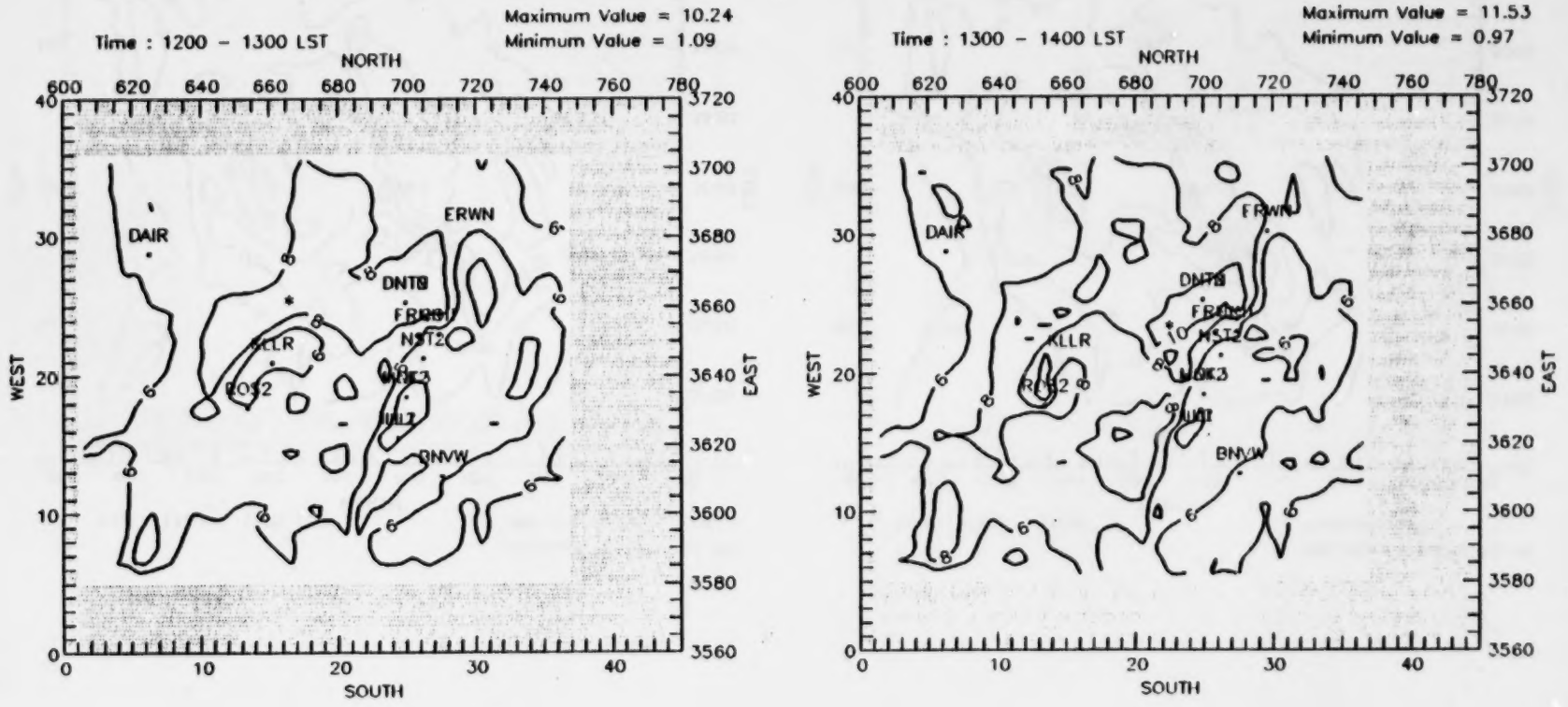

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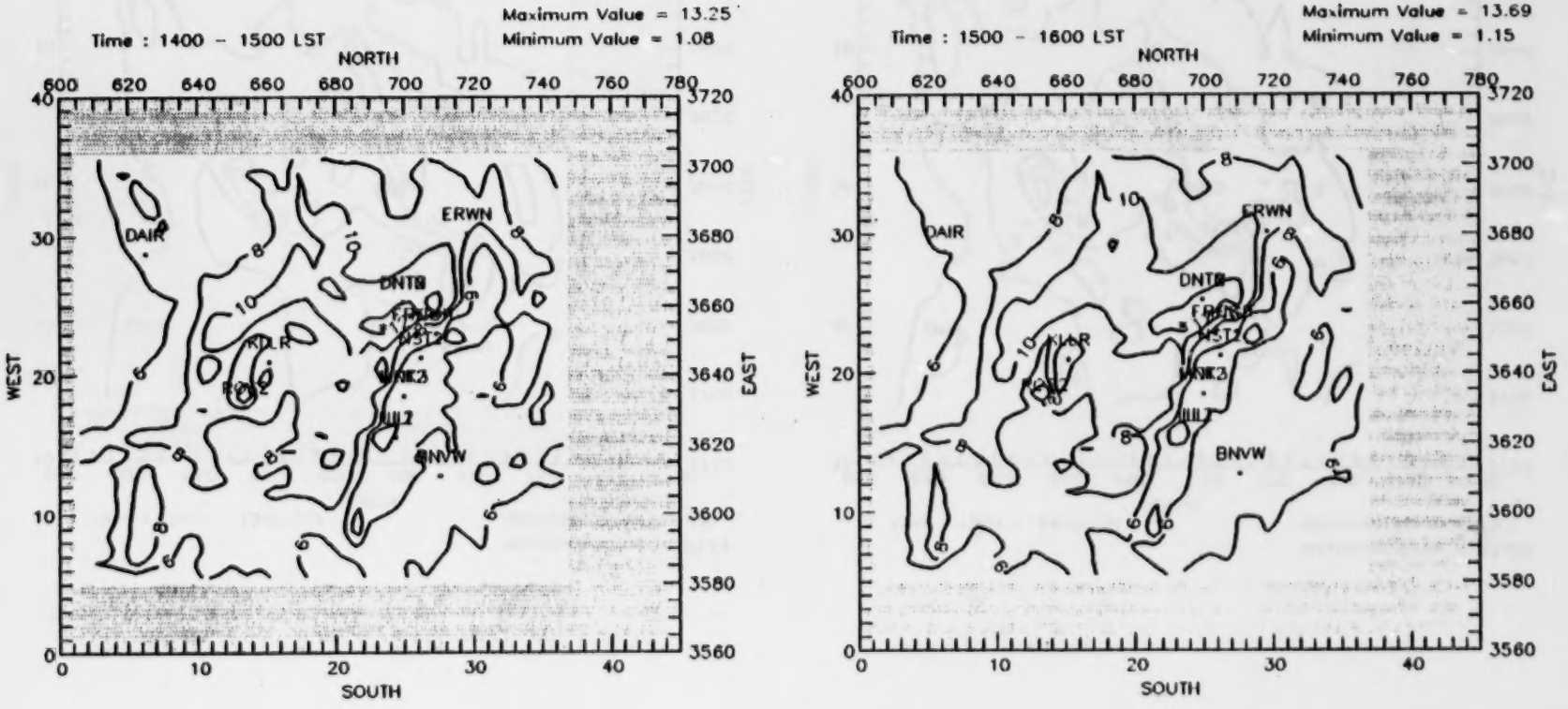

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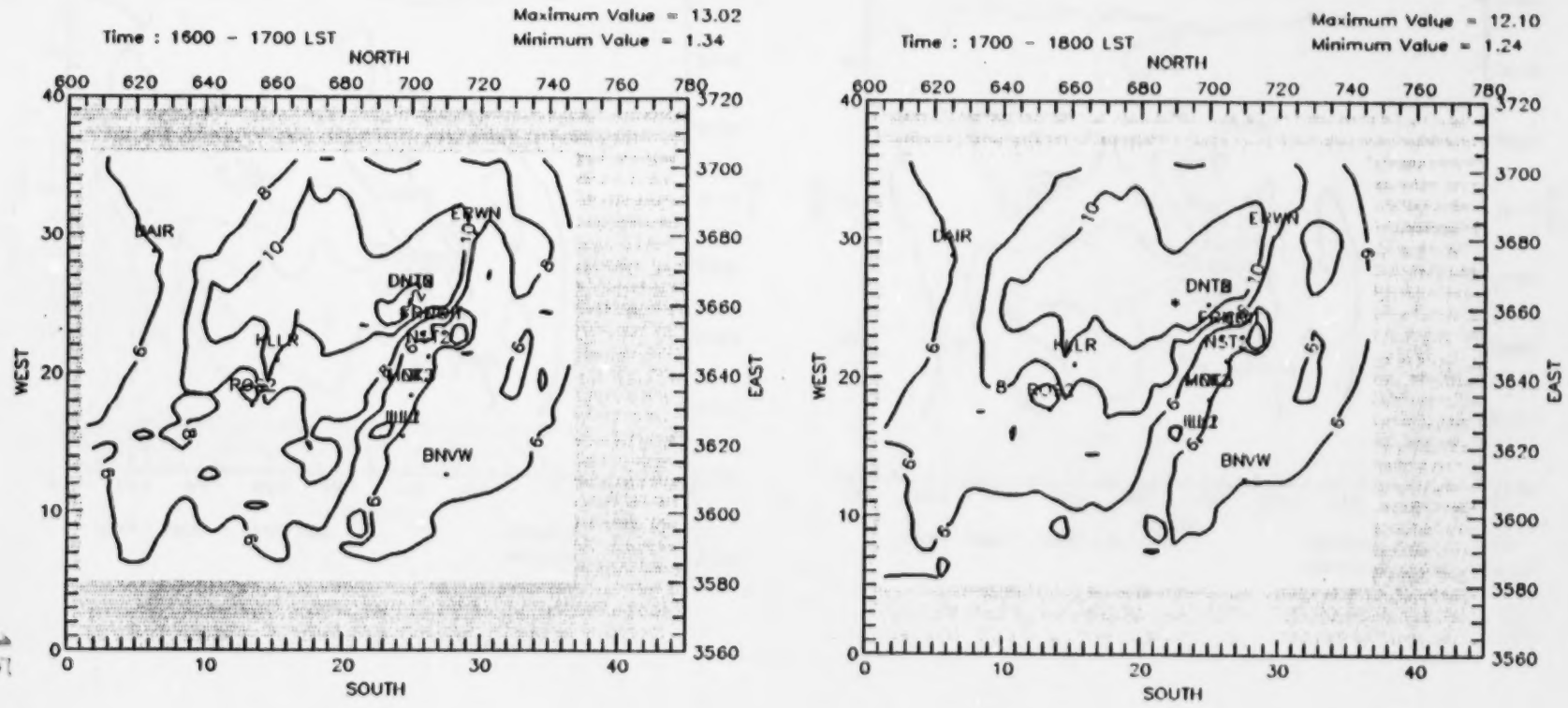

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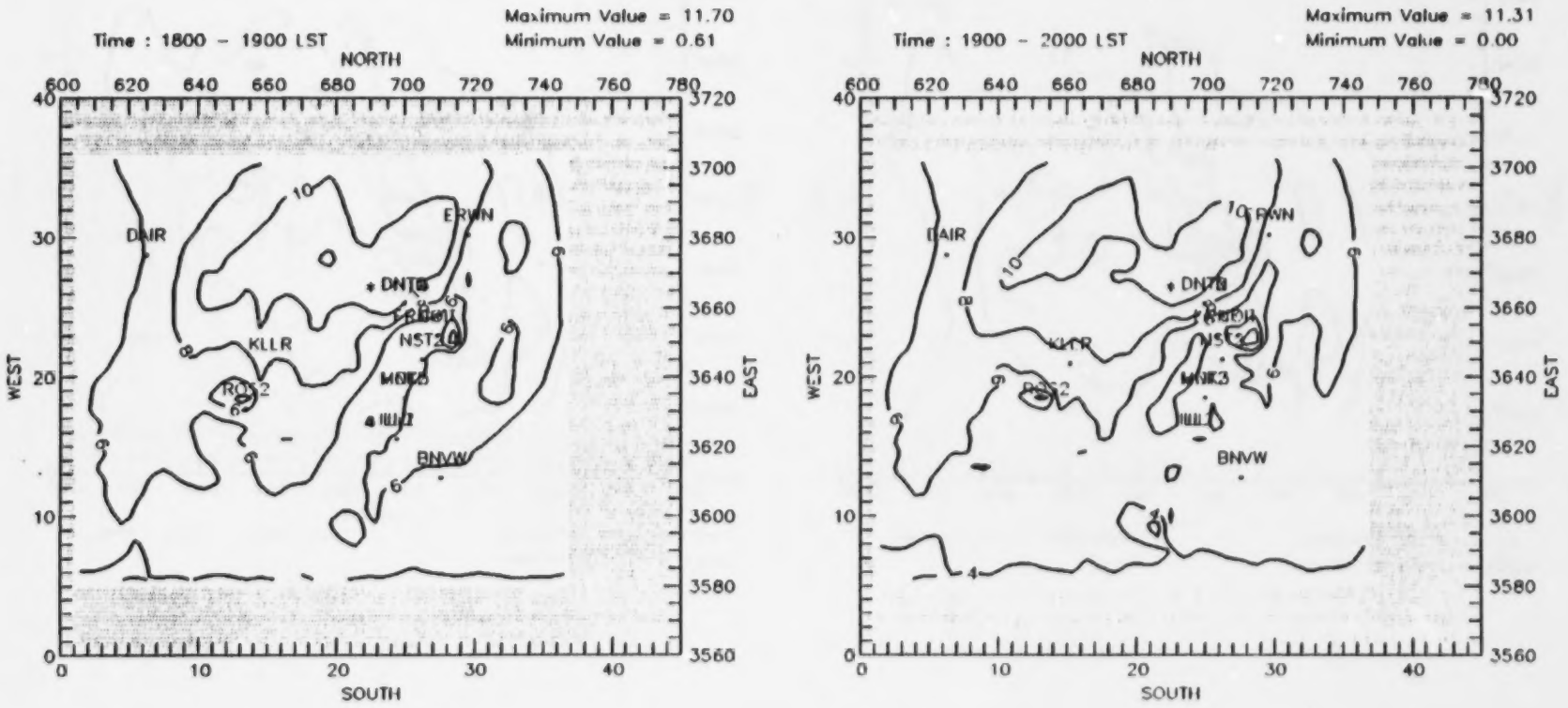

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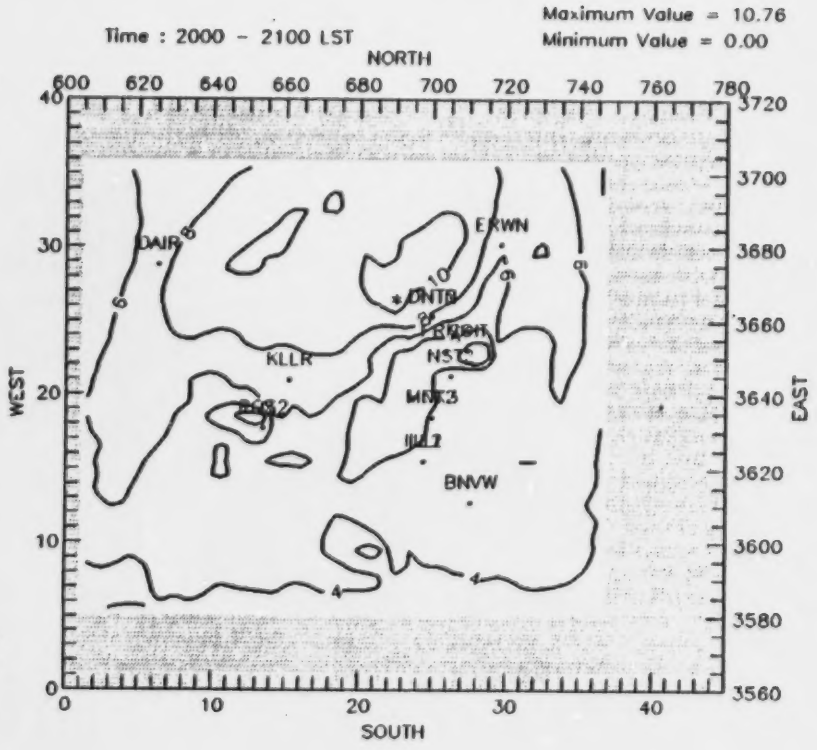

Predicted ozone concentrations (pphm) for 1995 base case on 31 August 1985.

Appendix C

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR
DALLAS-FORT WORTH 1995 EMISSION SCENARIO #1
(24 PERCENT REDUCTION IN VOC EMISSIONS AND 40
PERCENT REDUCTION IN NO_x EMISSIONS)

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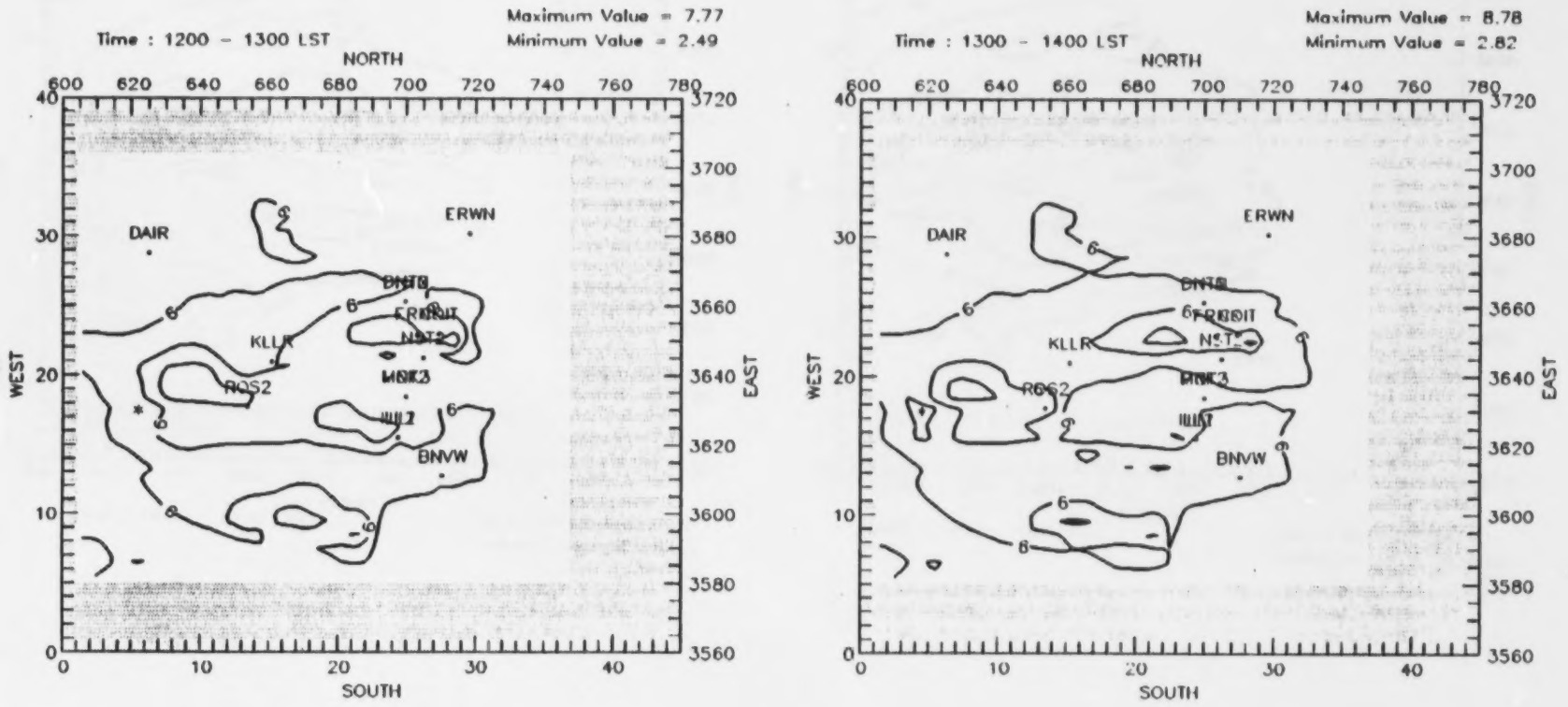

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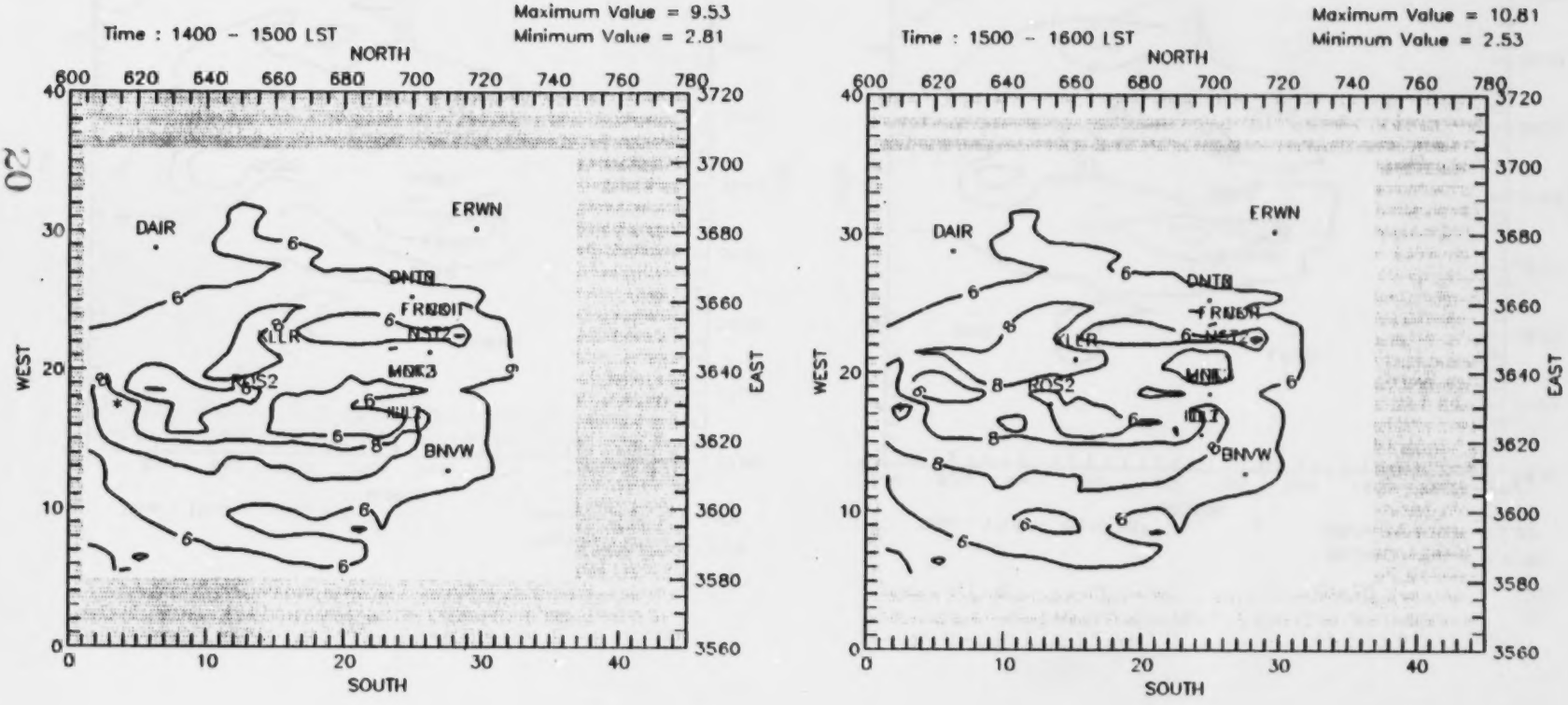

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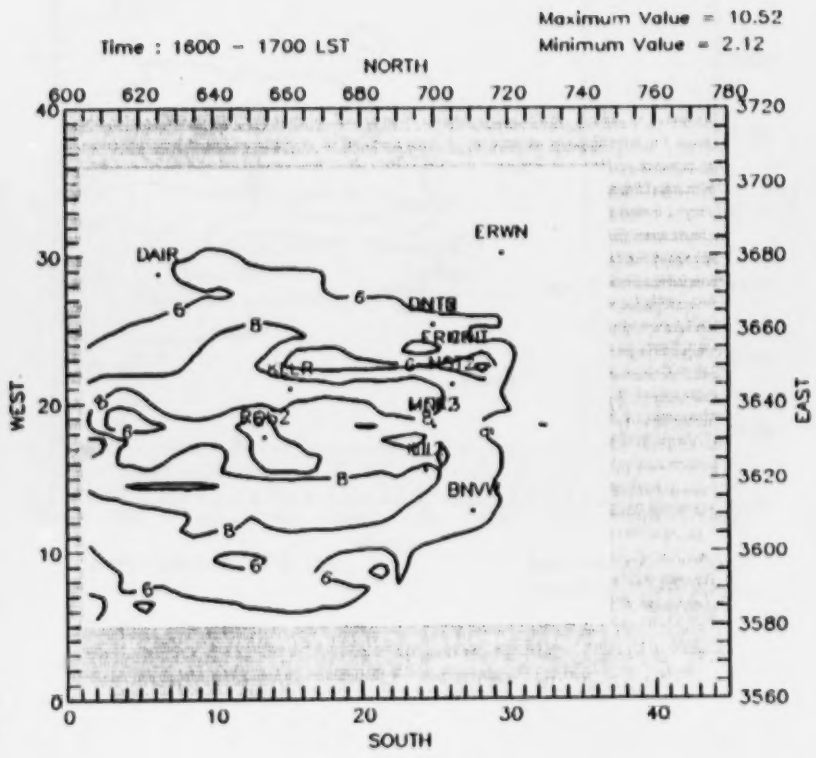

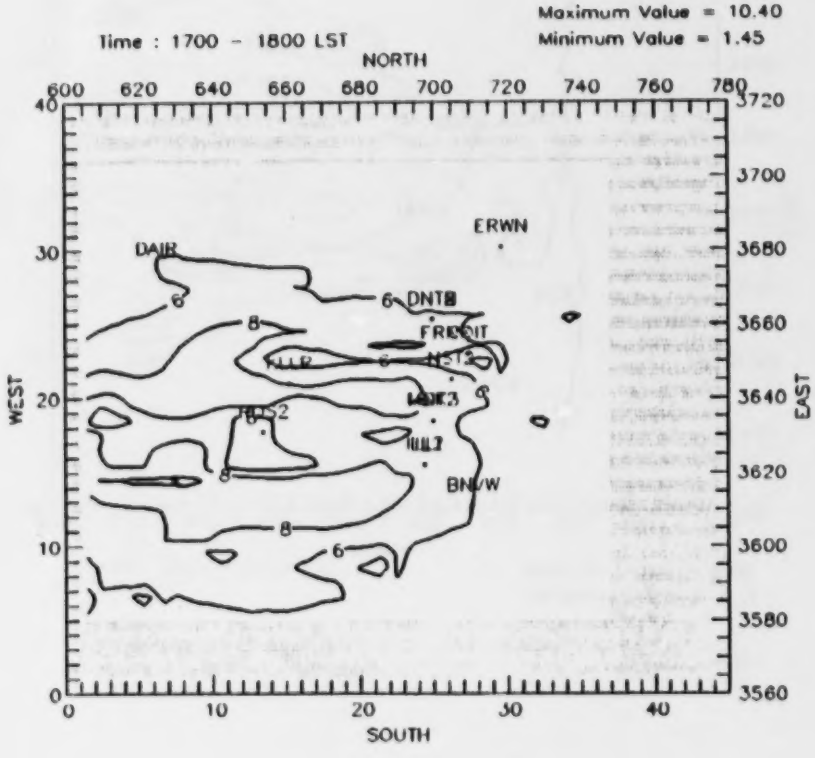

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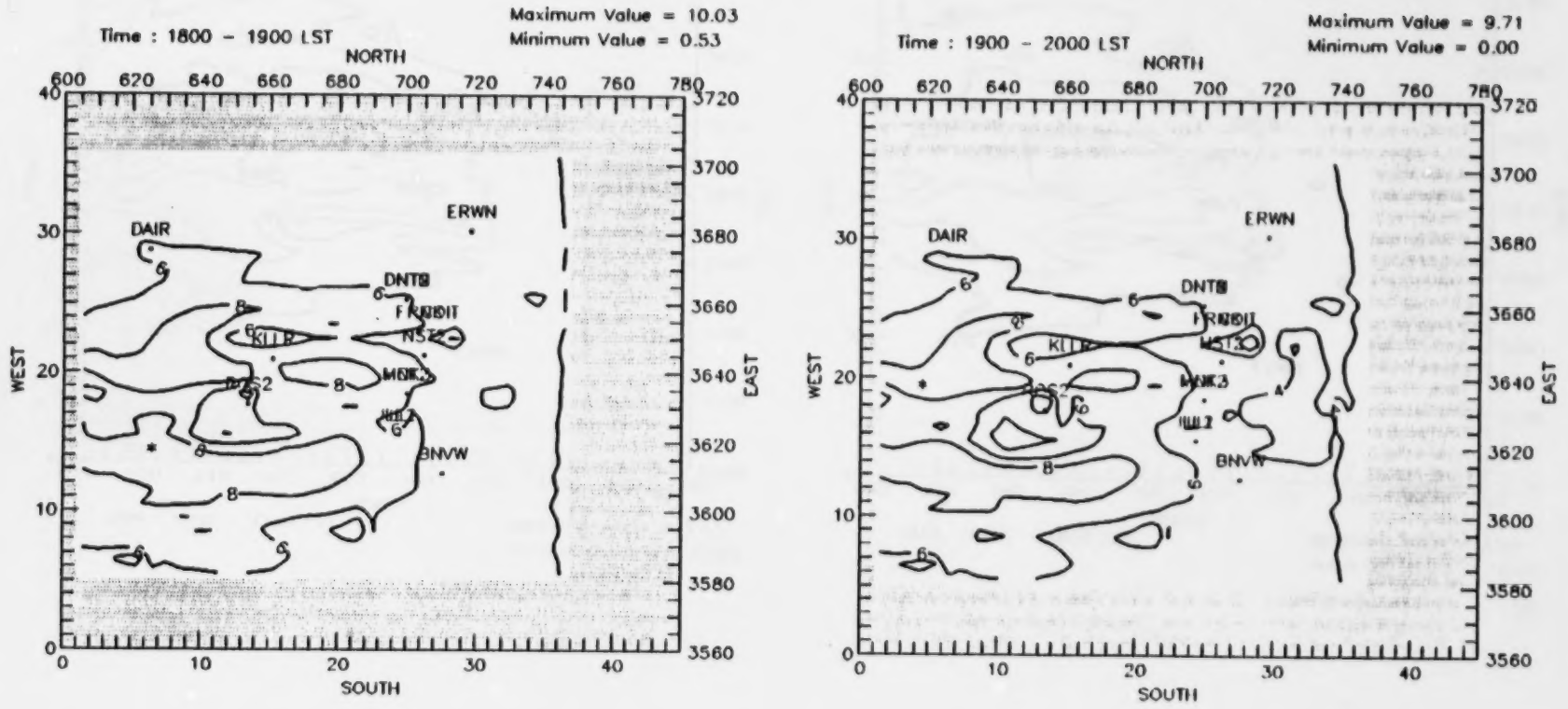

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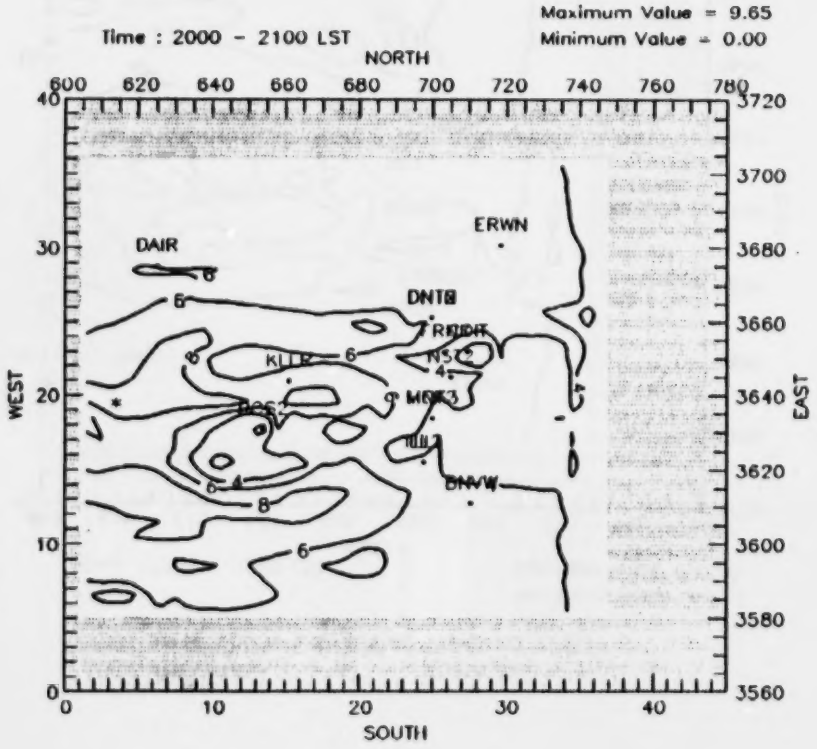

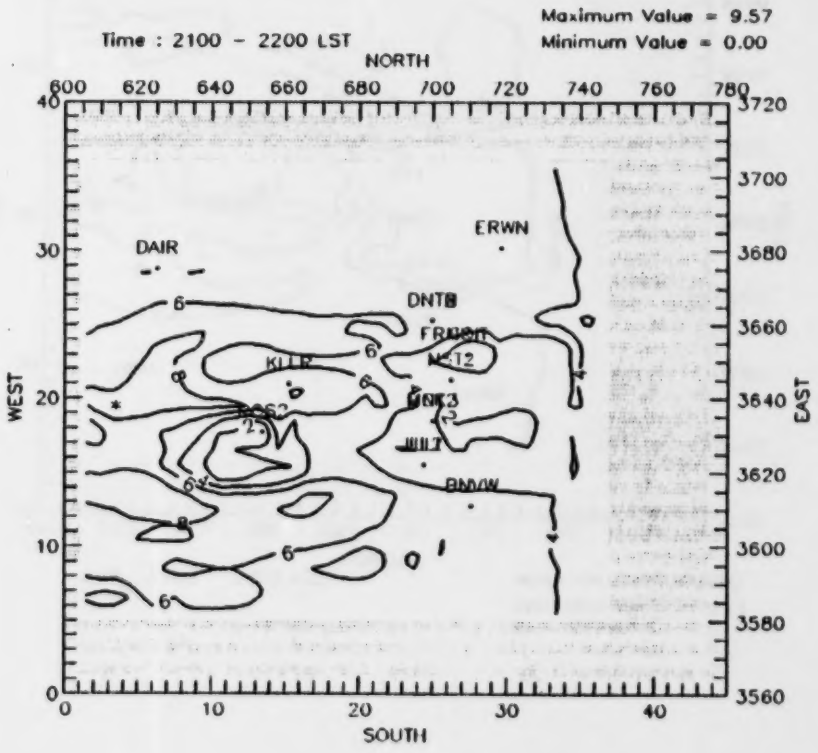

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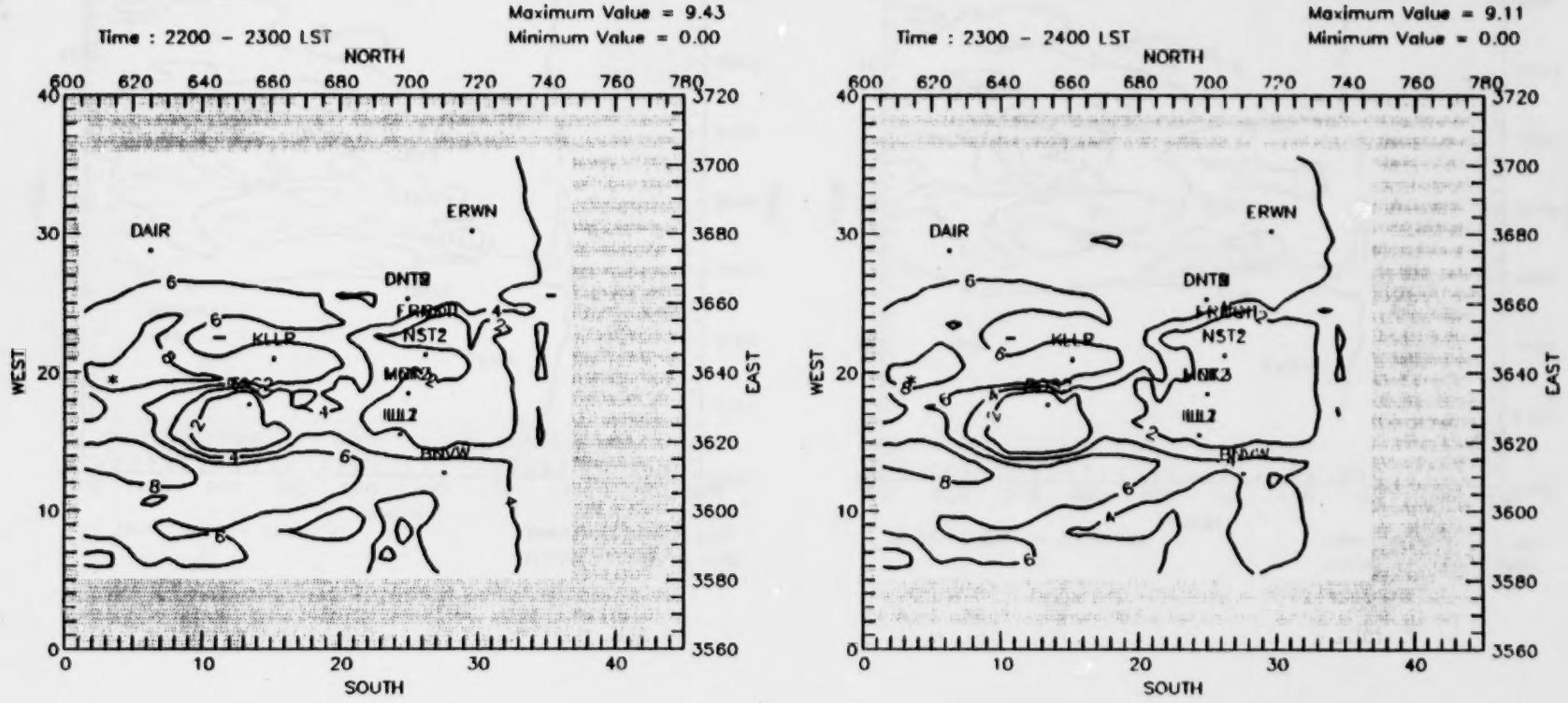

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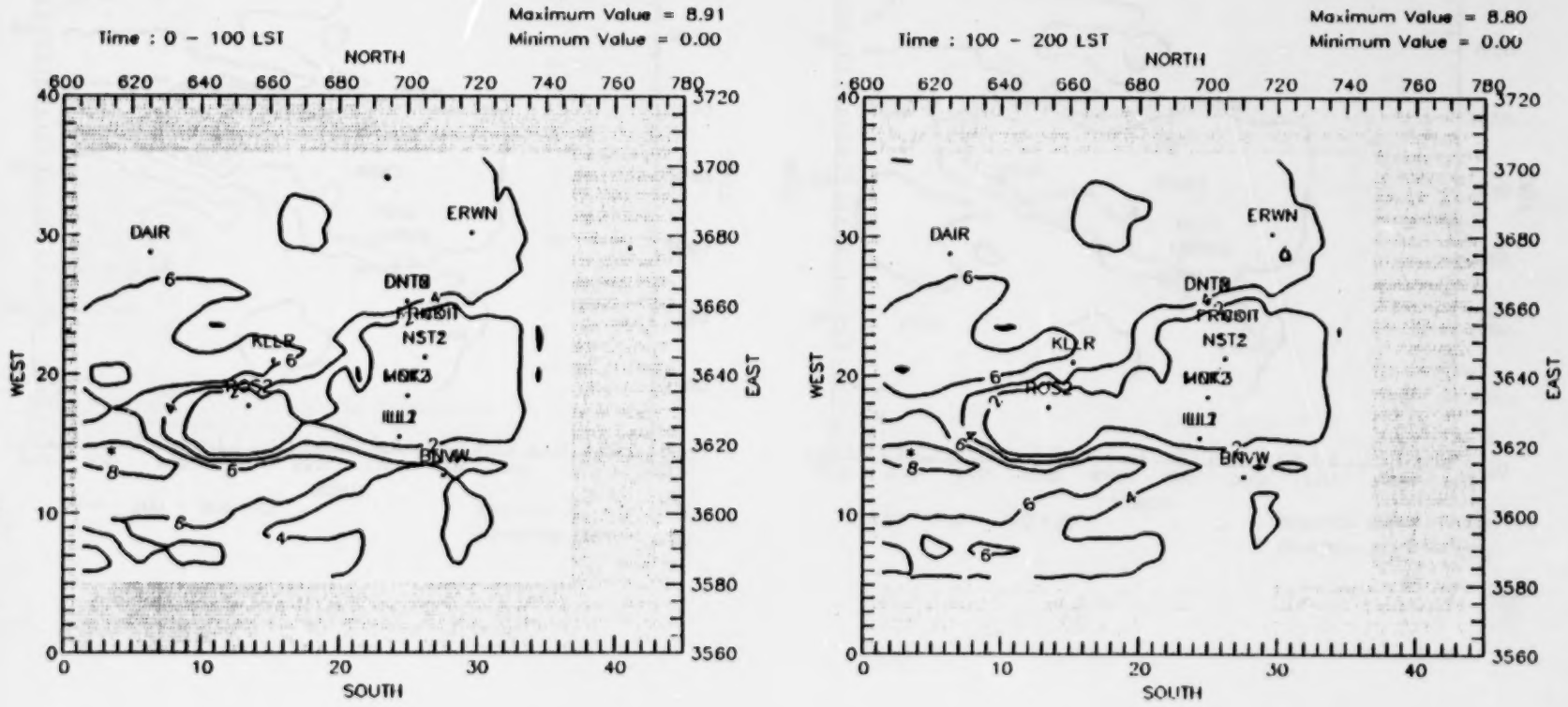

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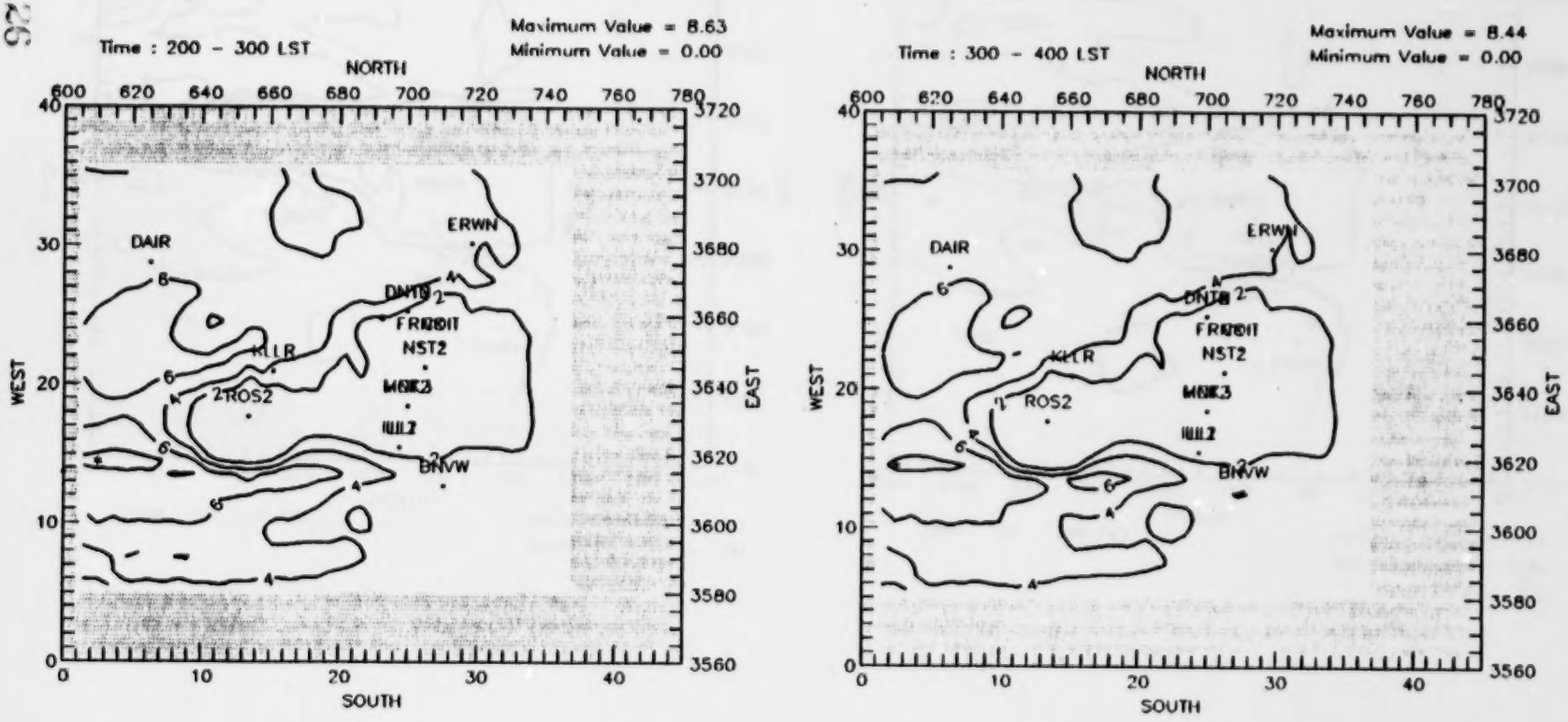

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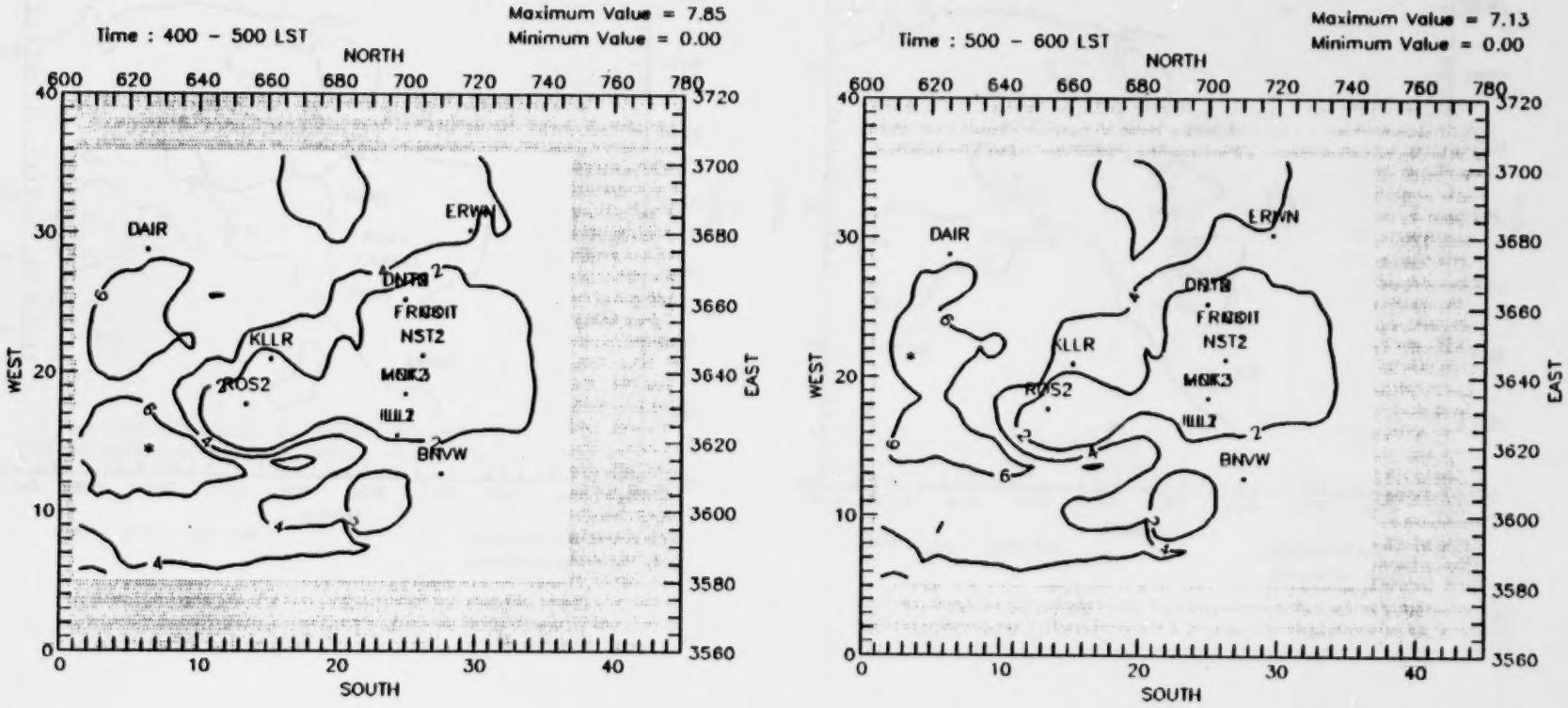

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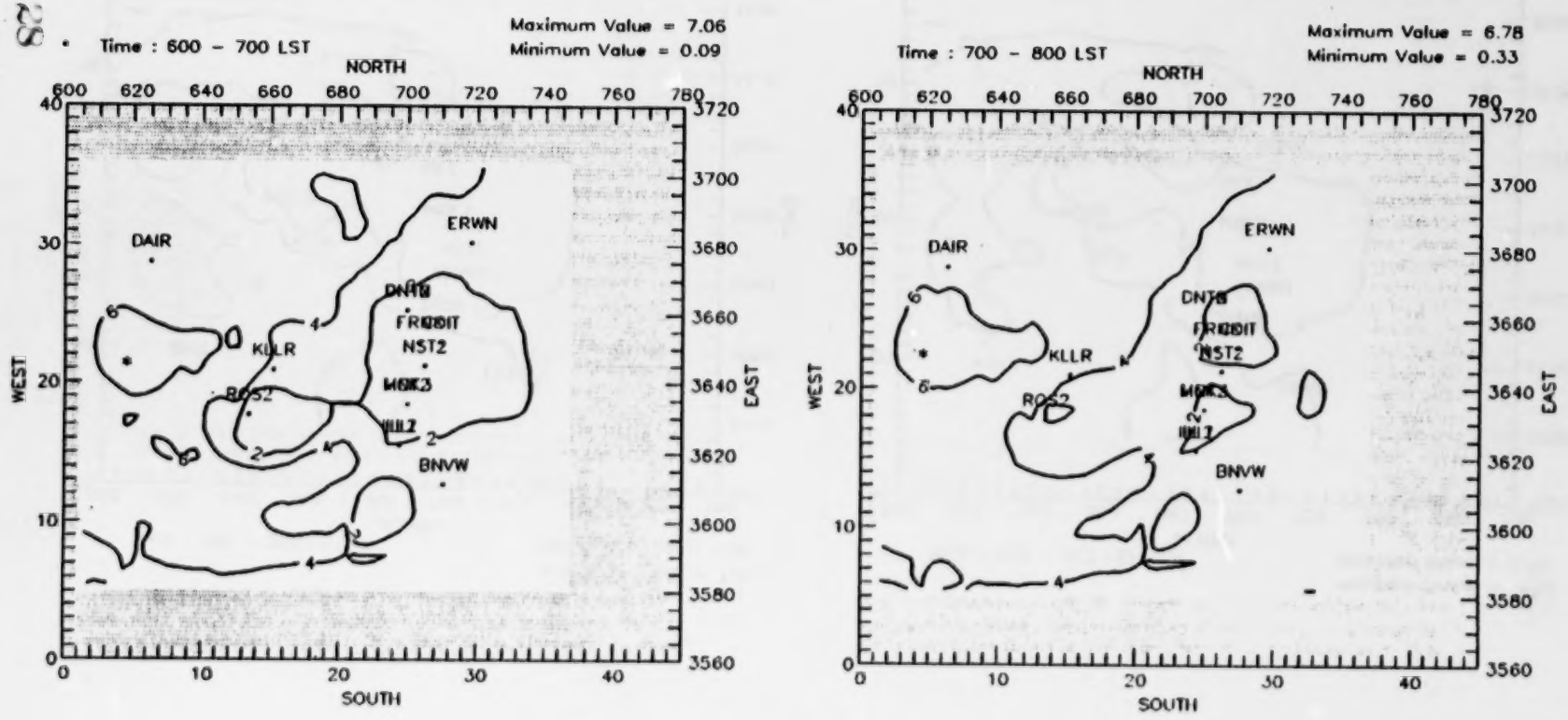

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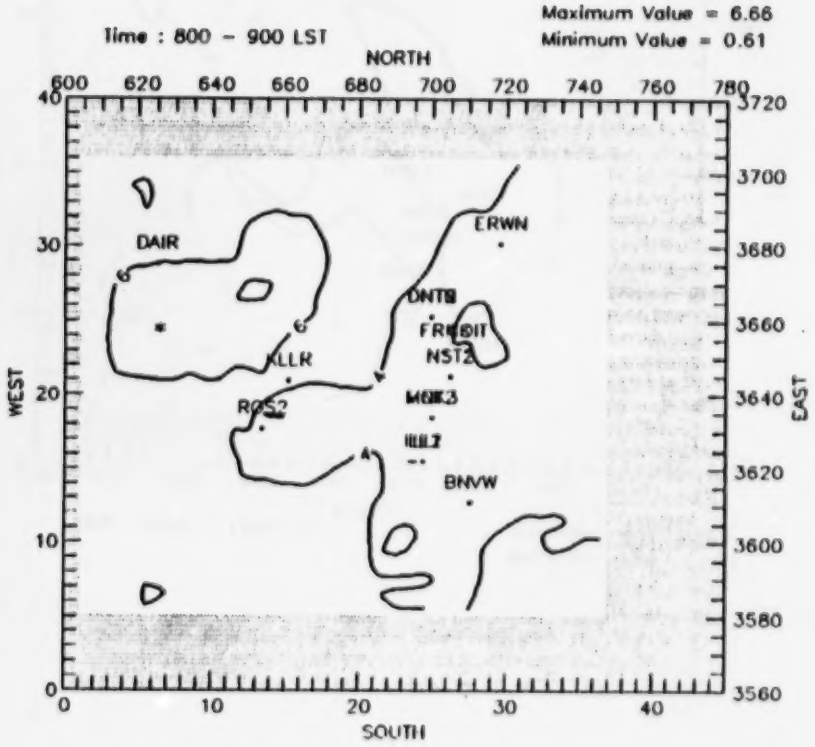
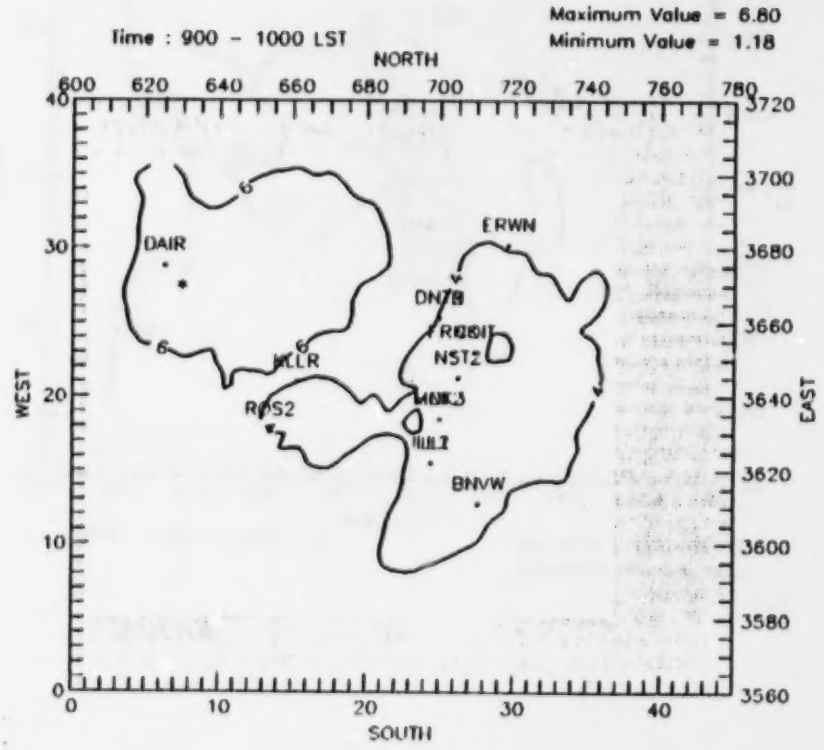
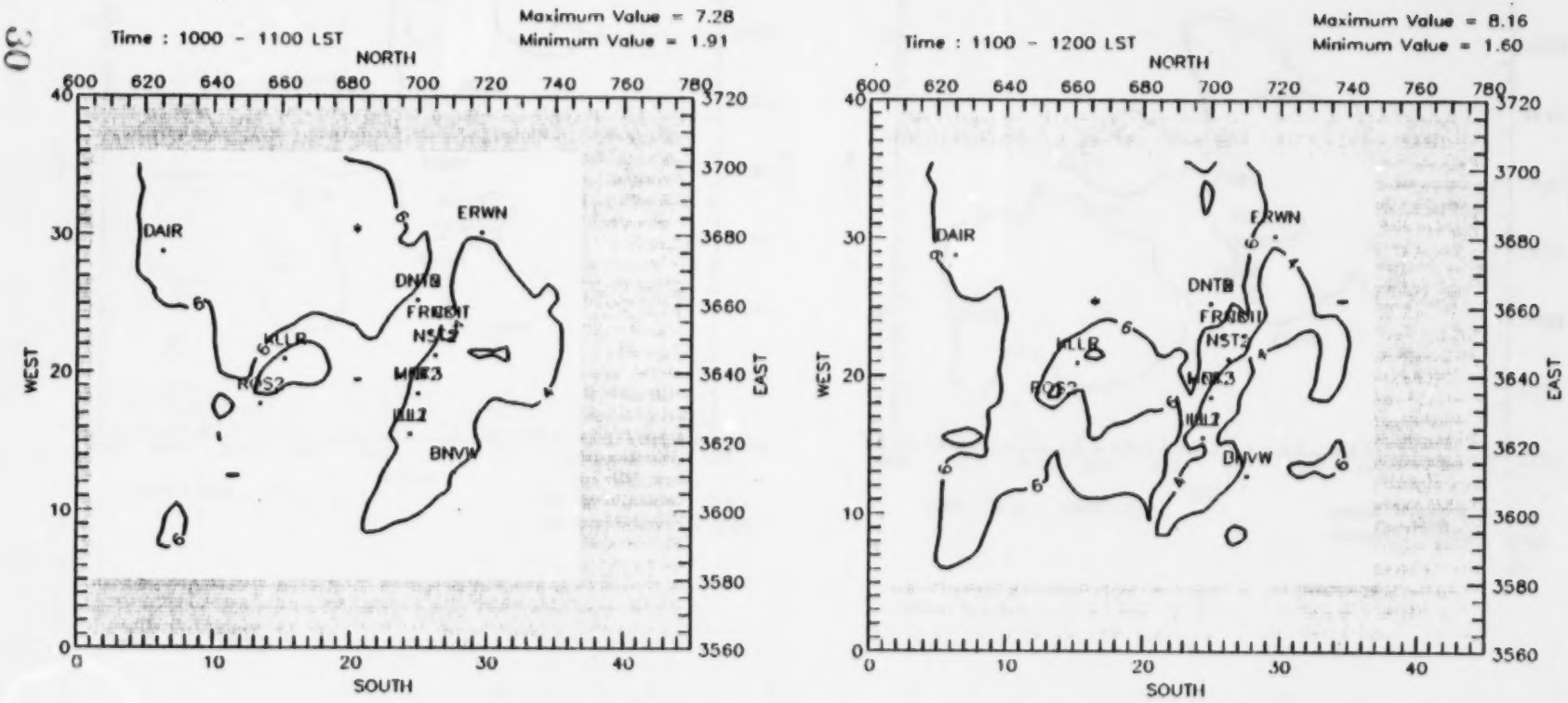
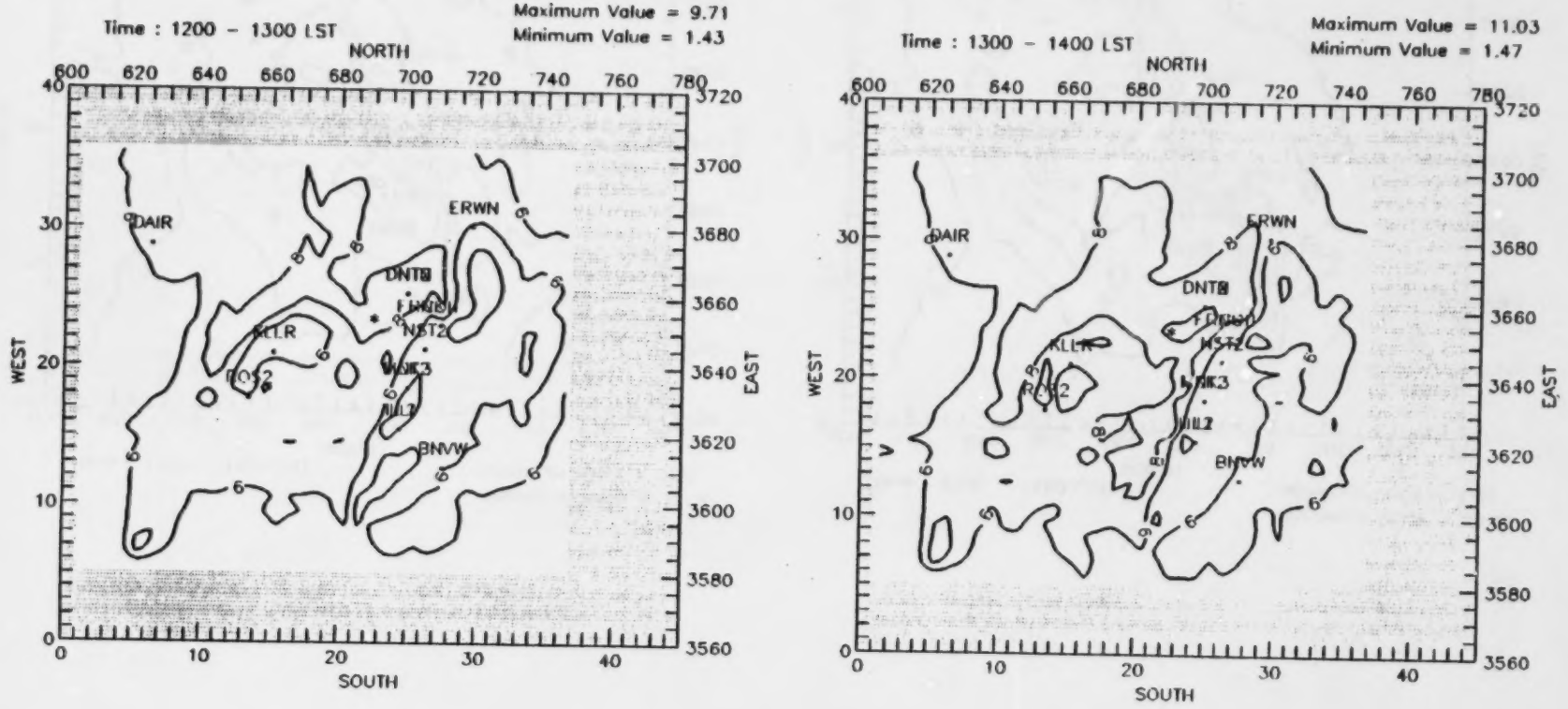




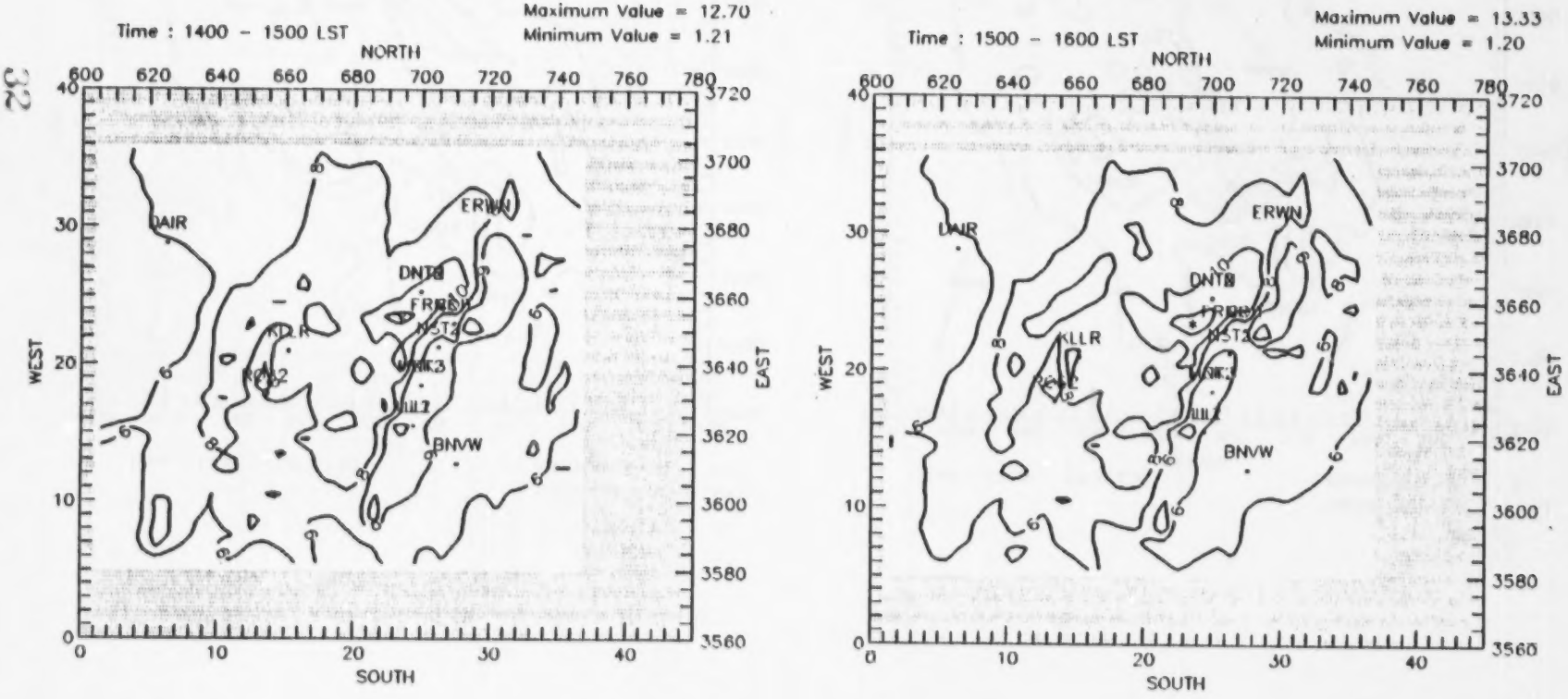
Predicted ozone concentrations (pphm) for 1995 scenario #1 on 31 August 1985.



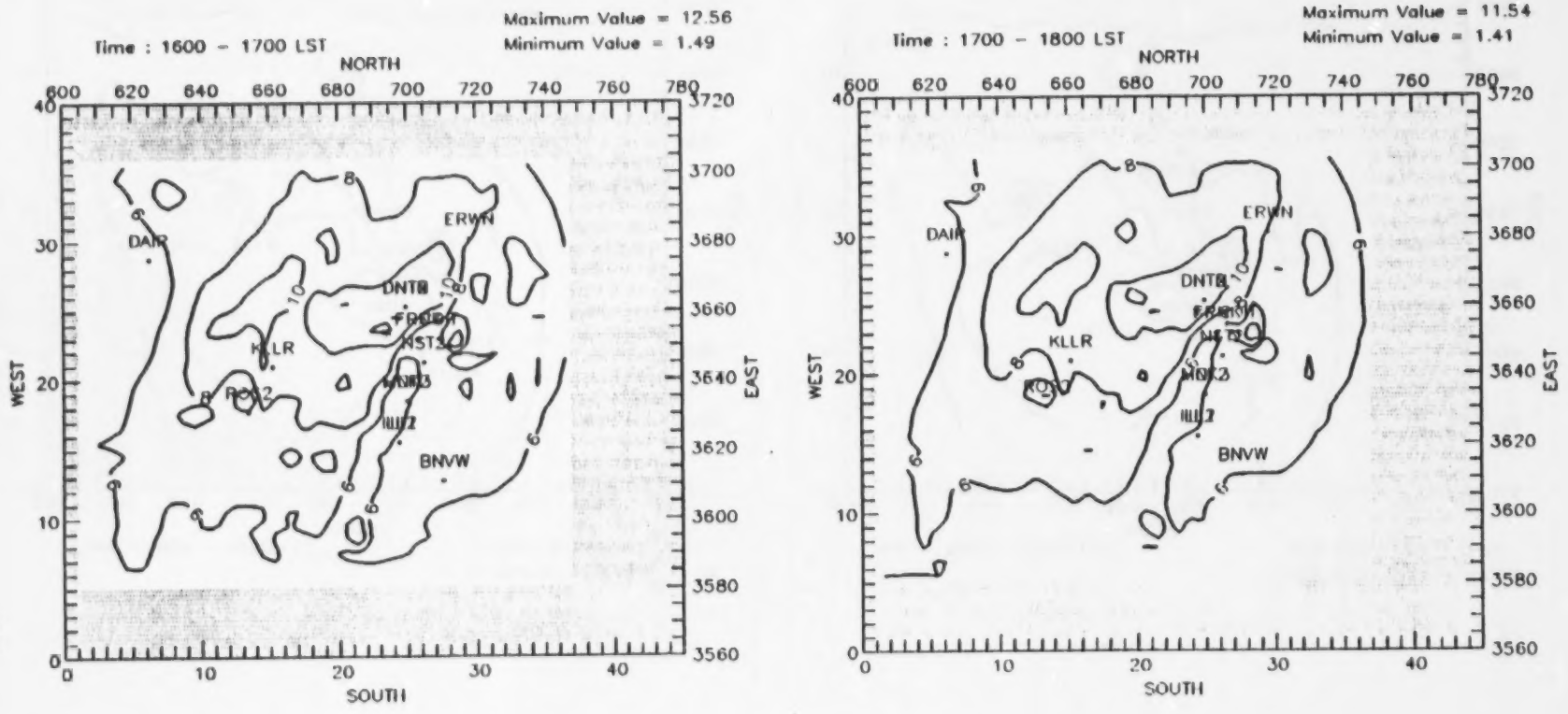
Predicted ozone concentrations (pphm) for 1995 scenario #1 on 31 August 1985.



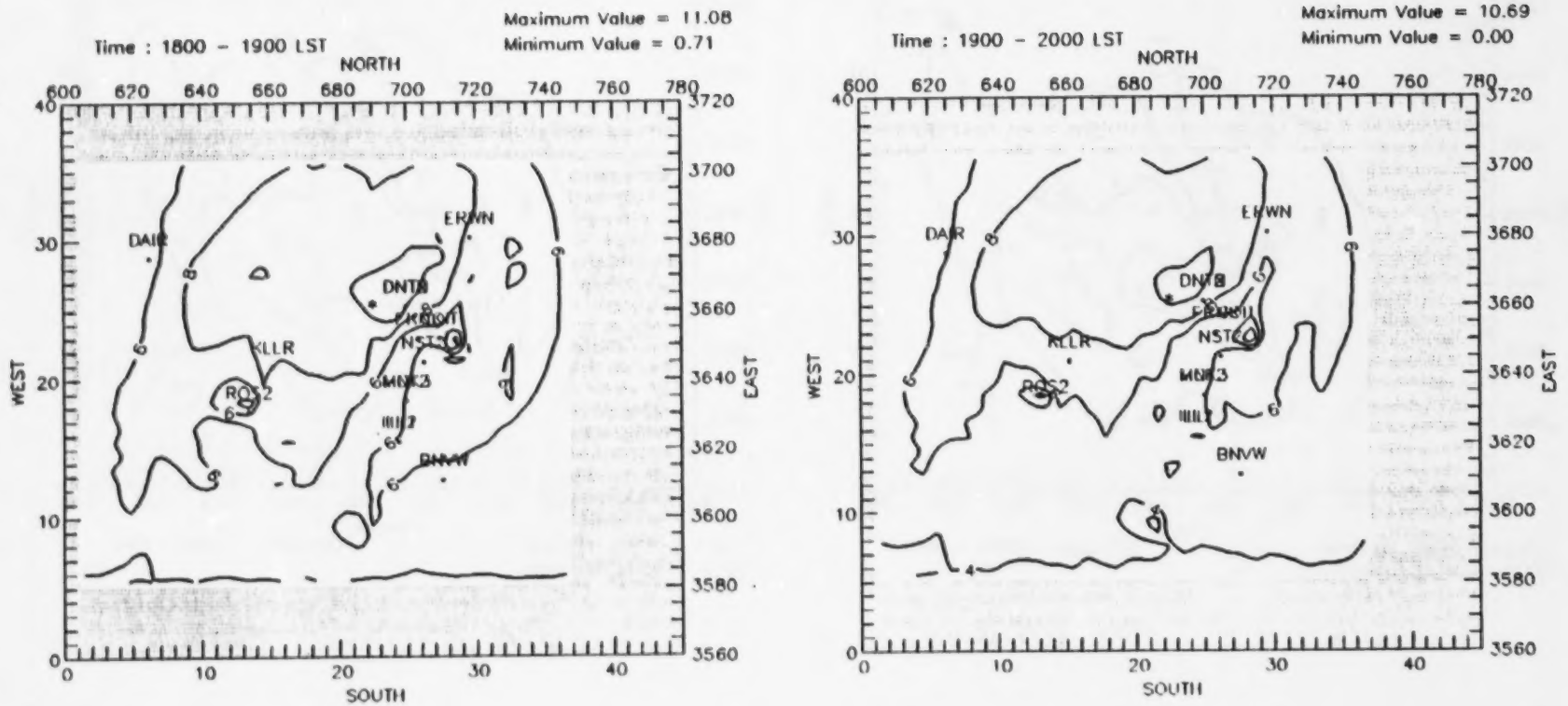
Predicted ozone concentrations (pphm) for 1995 scenario #1 on 31 August 1985.



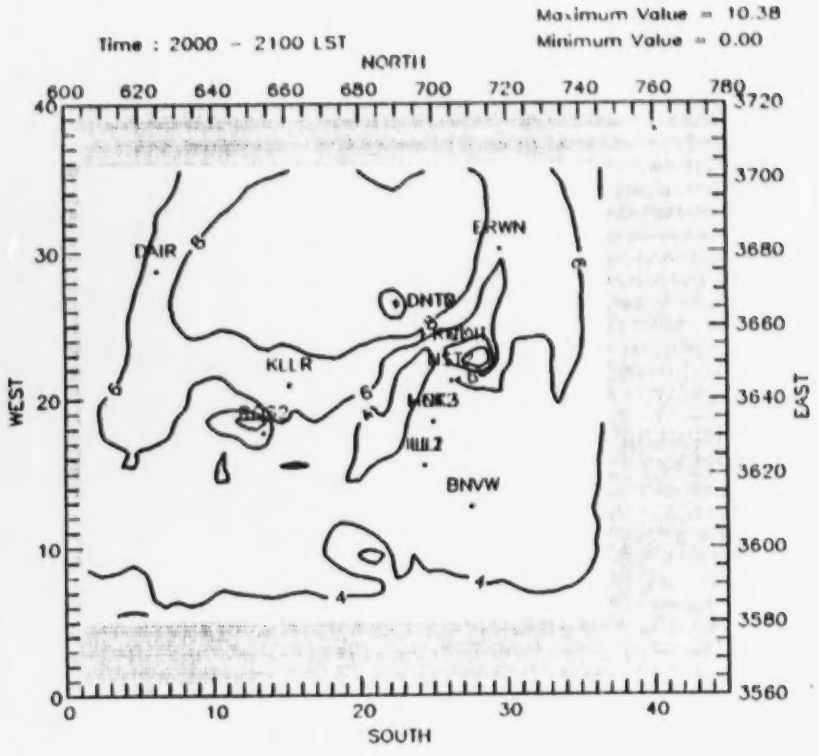
Predicted ozone concentrations (pphm) for 1995 scenario #1 on 31 August 1985.



Predicted ozone concentrations (pphm) for 1995 scenario #1 on 31 August 1985.



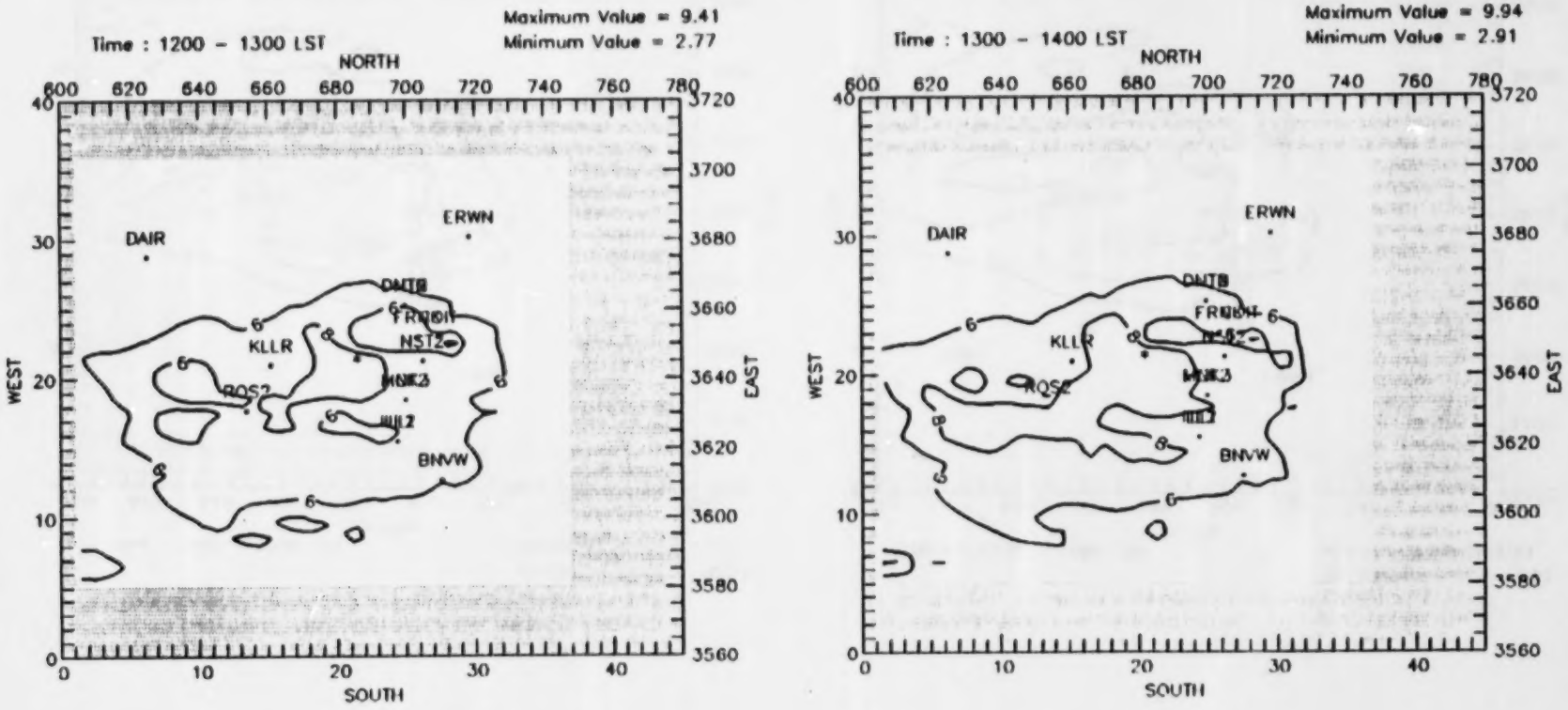
Predicted ozone concentrations (pphm) for 1995 scenario #1 on 31 August 1985.



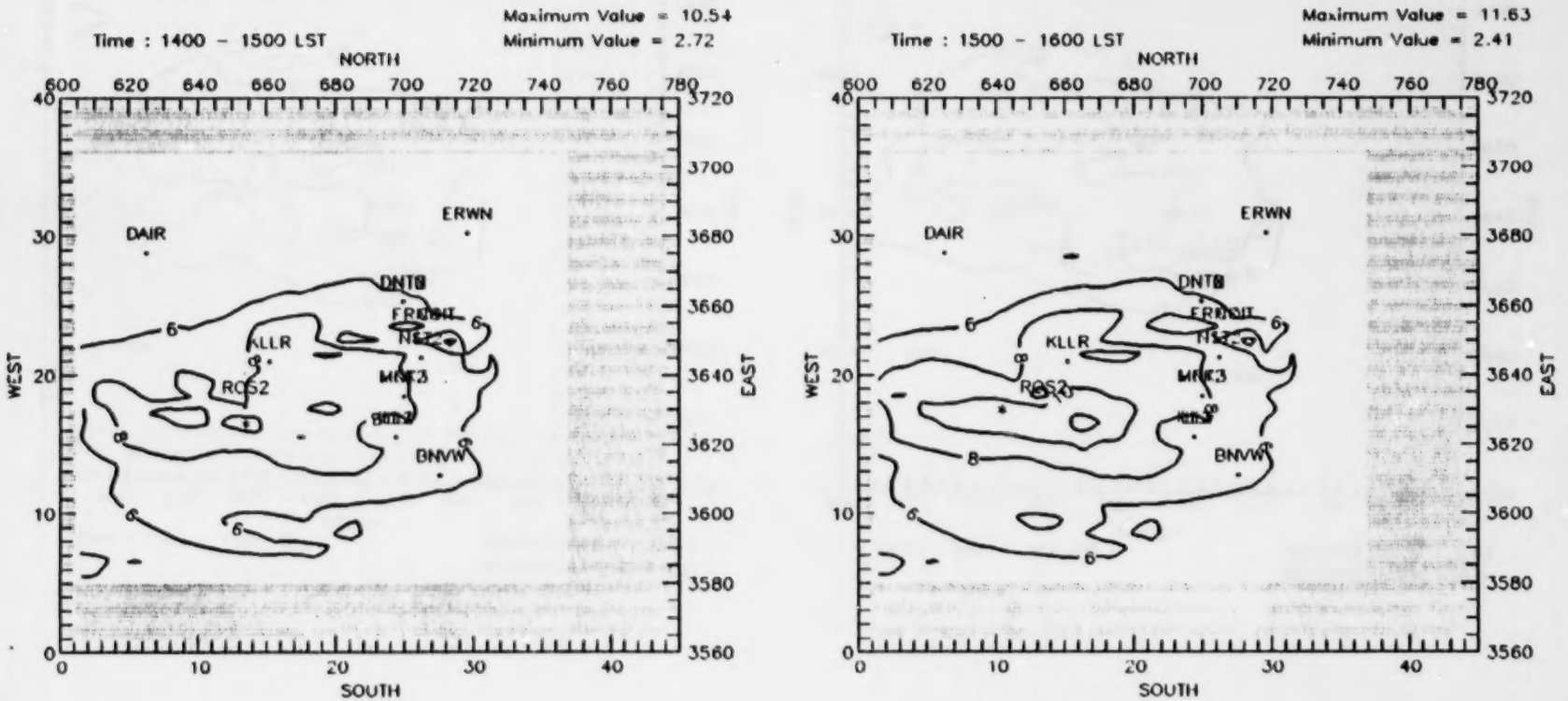
Predicted ozone concentrations (pphm) for 1995 scenario #1 on 31 August 1985.

Appendix D

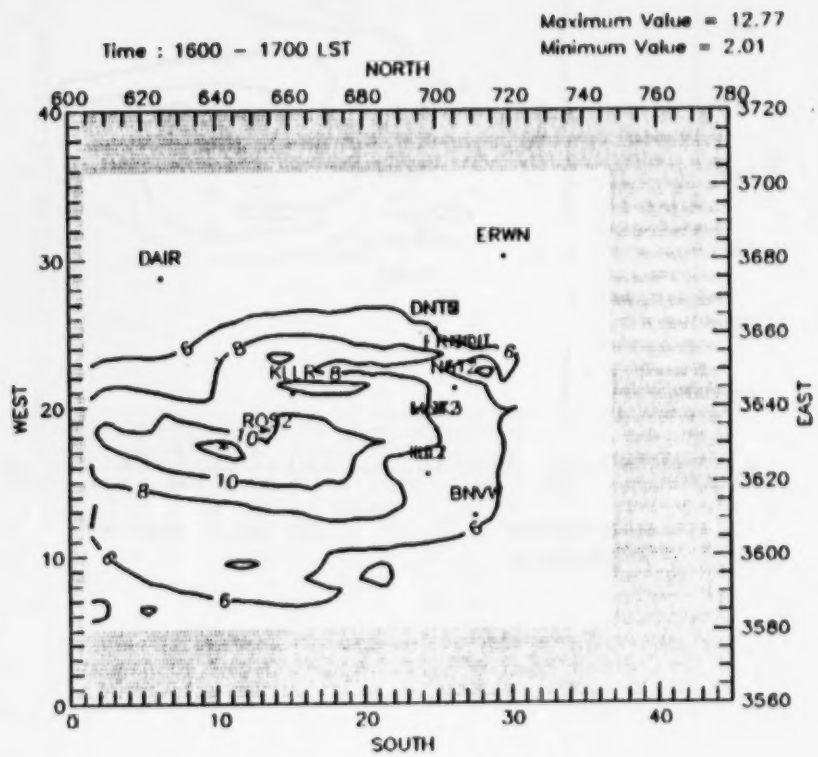
PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR
DALLAS-FORT WORTH 1995 EMISSION SCENARIO #2
(24 PERCENT REDUCTION IN VOC EMISSIONS AND 60
PERCENT REDUCTION IN NO_x EMISSIONS

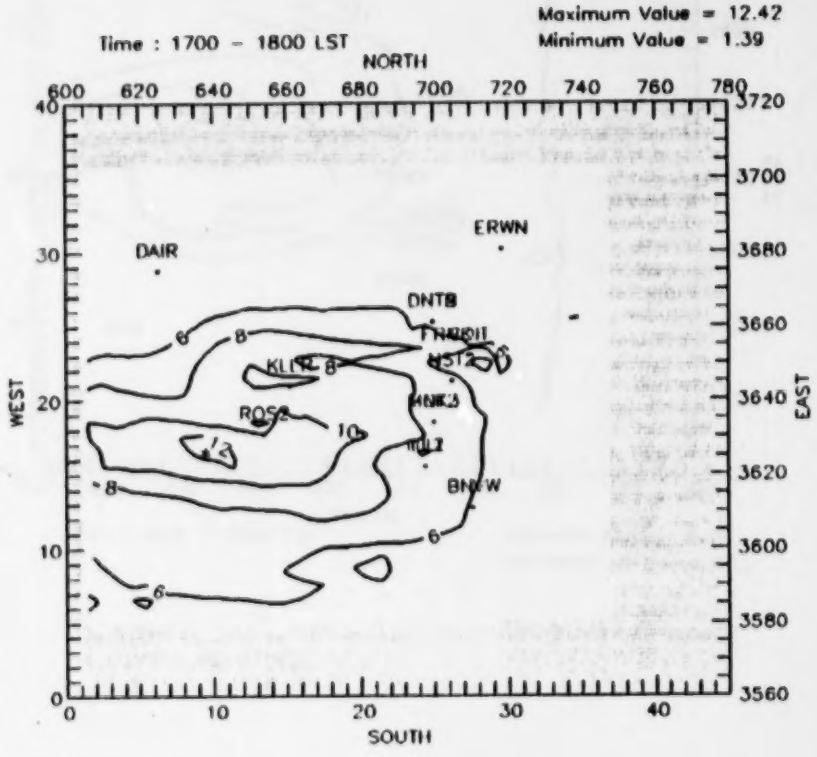


Predicted ozone concentrations (pphm) for 1995 scenario #2 on 30 August, 1985.

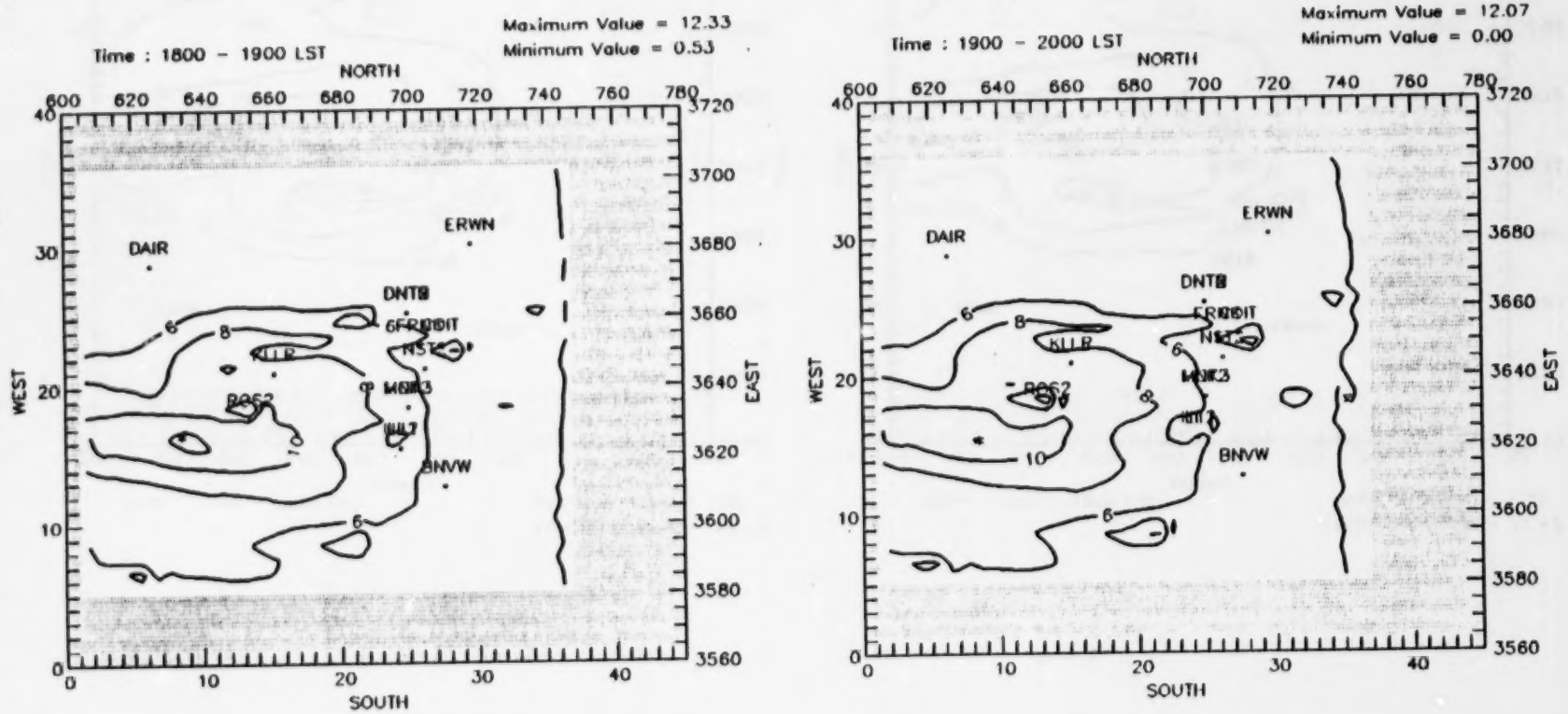


Predicted ozone concentrations (pphm) for 1995 scenario #2 on 30 August, 1985.

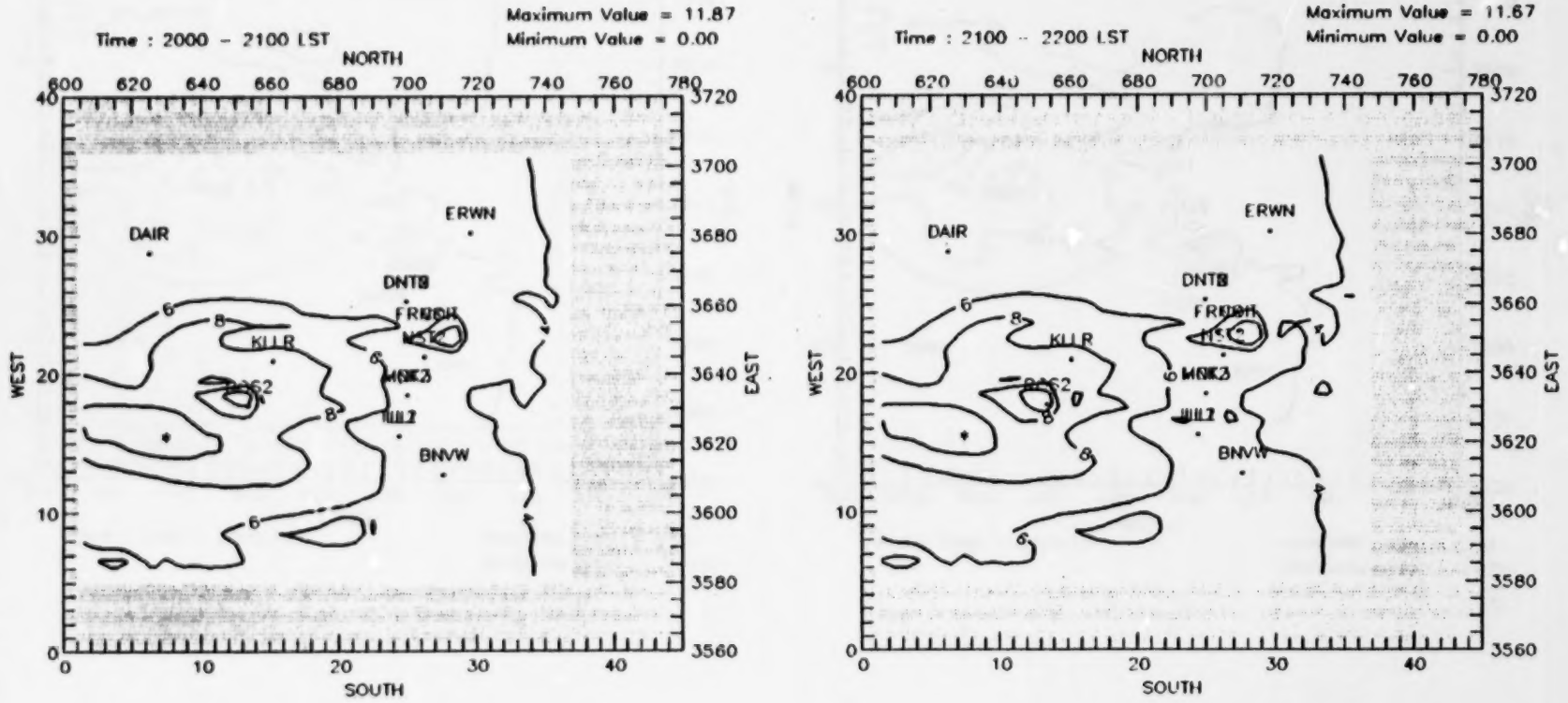




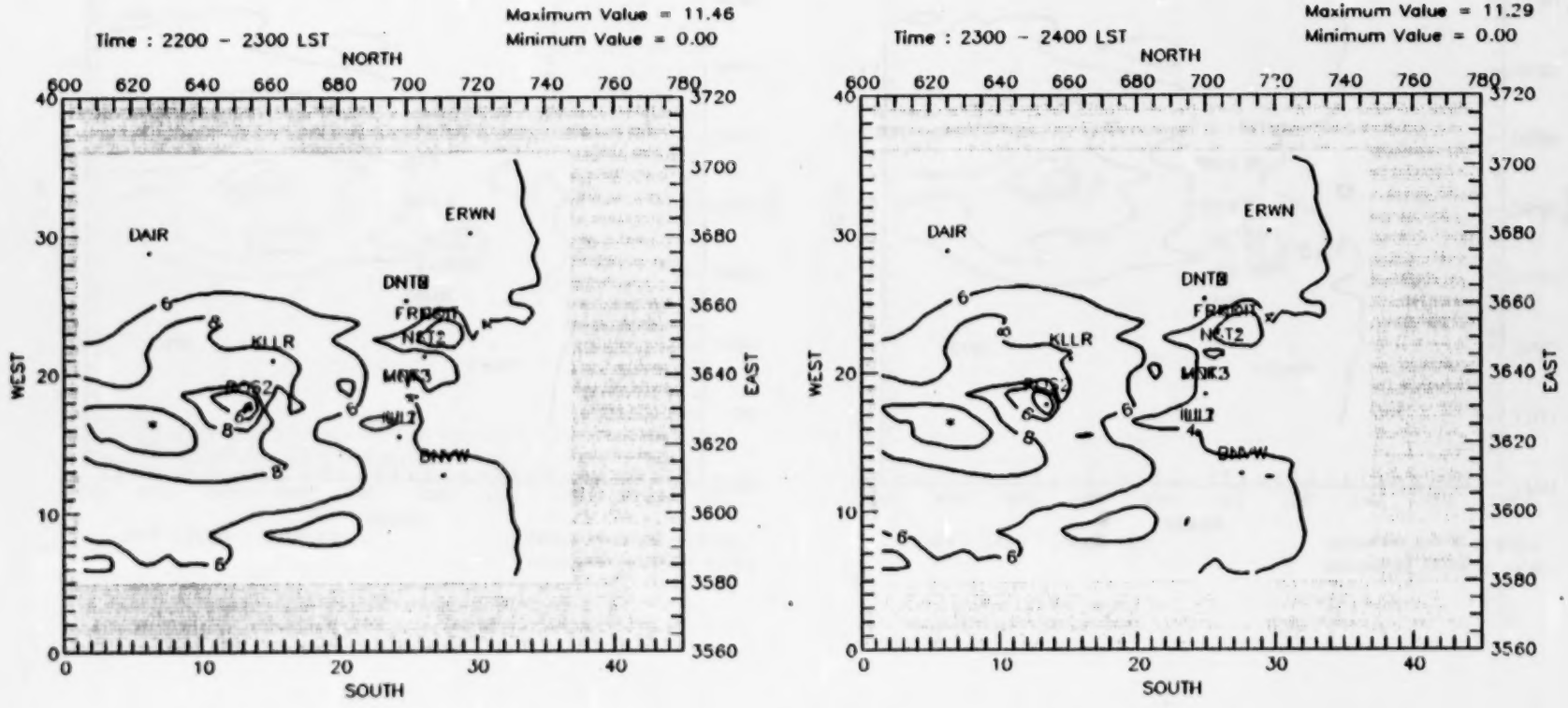
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 30 August, 1985.



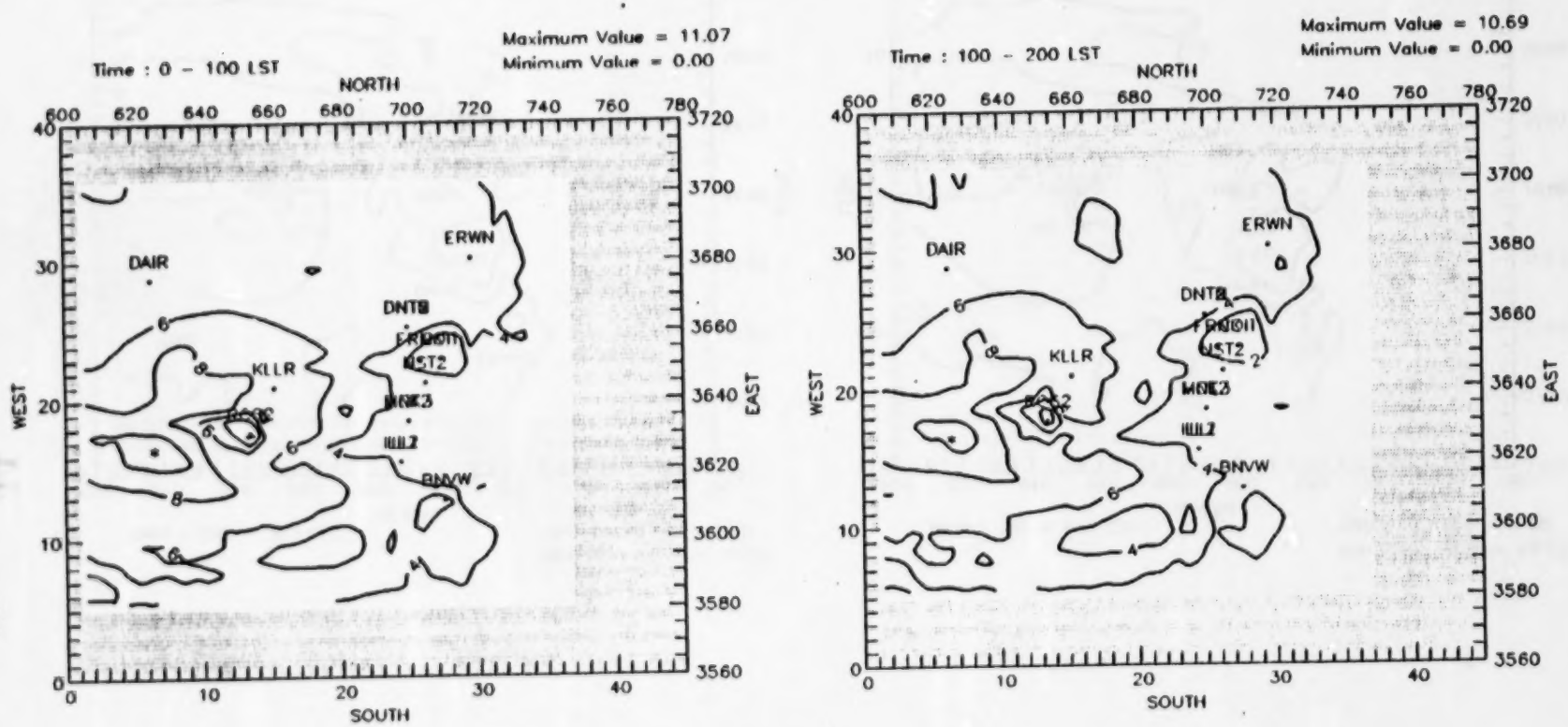
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 30 August, 1985.



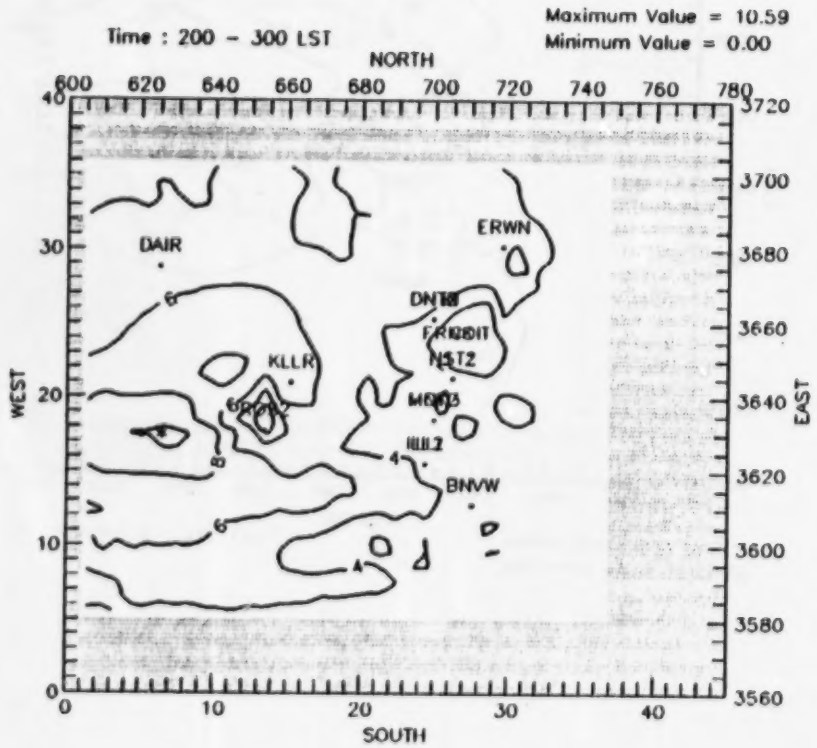
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 30 August, 1985.

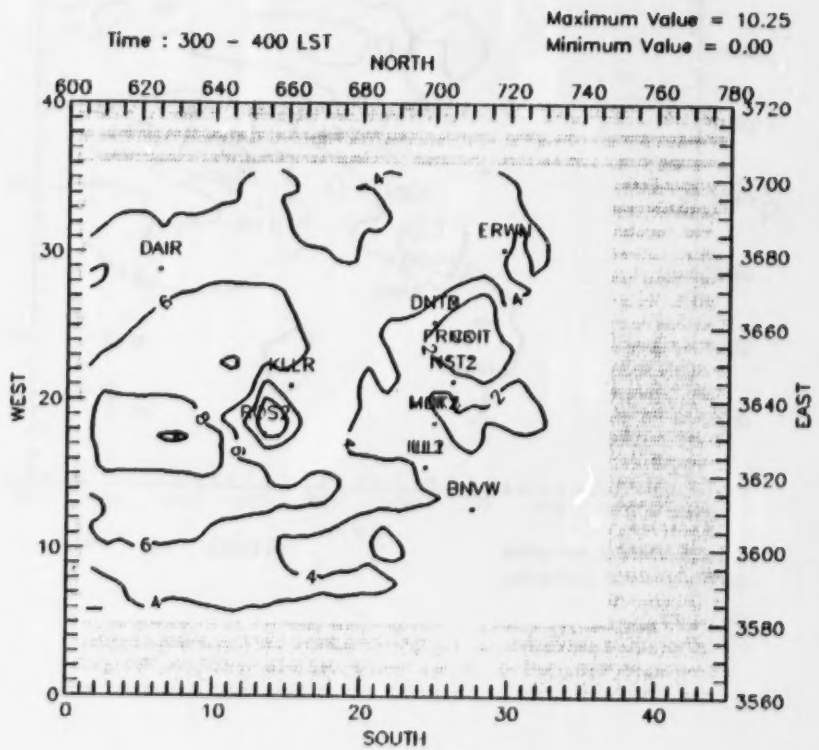


Predicted ozone concentrations (pphm) for 1995 scenario #2 on 30 August, 1985.

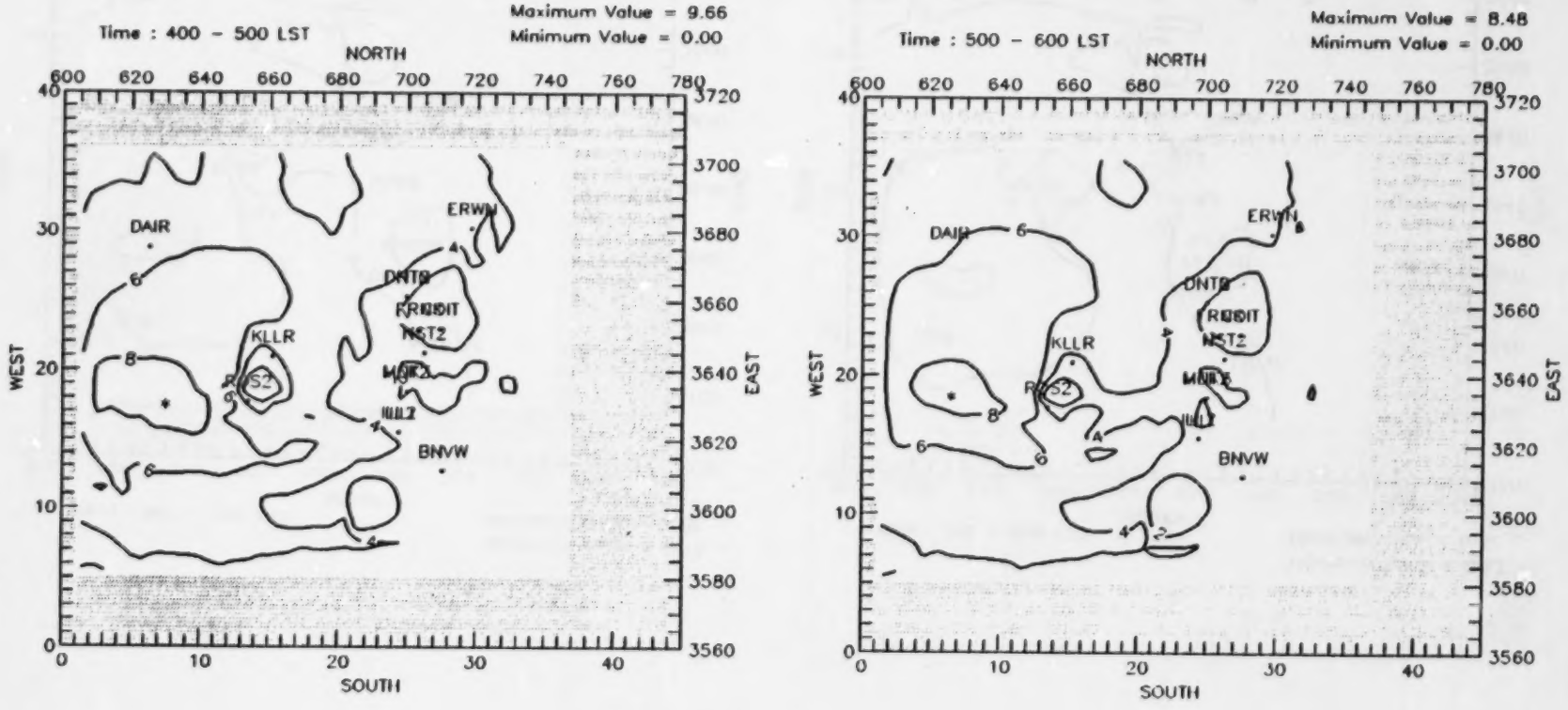


Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.

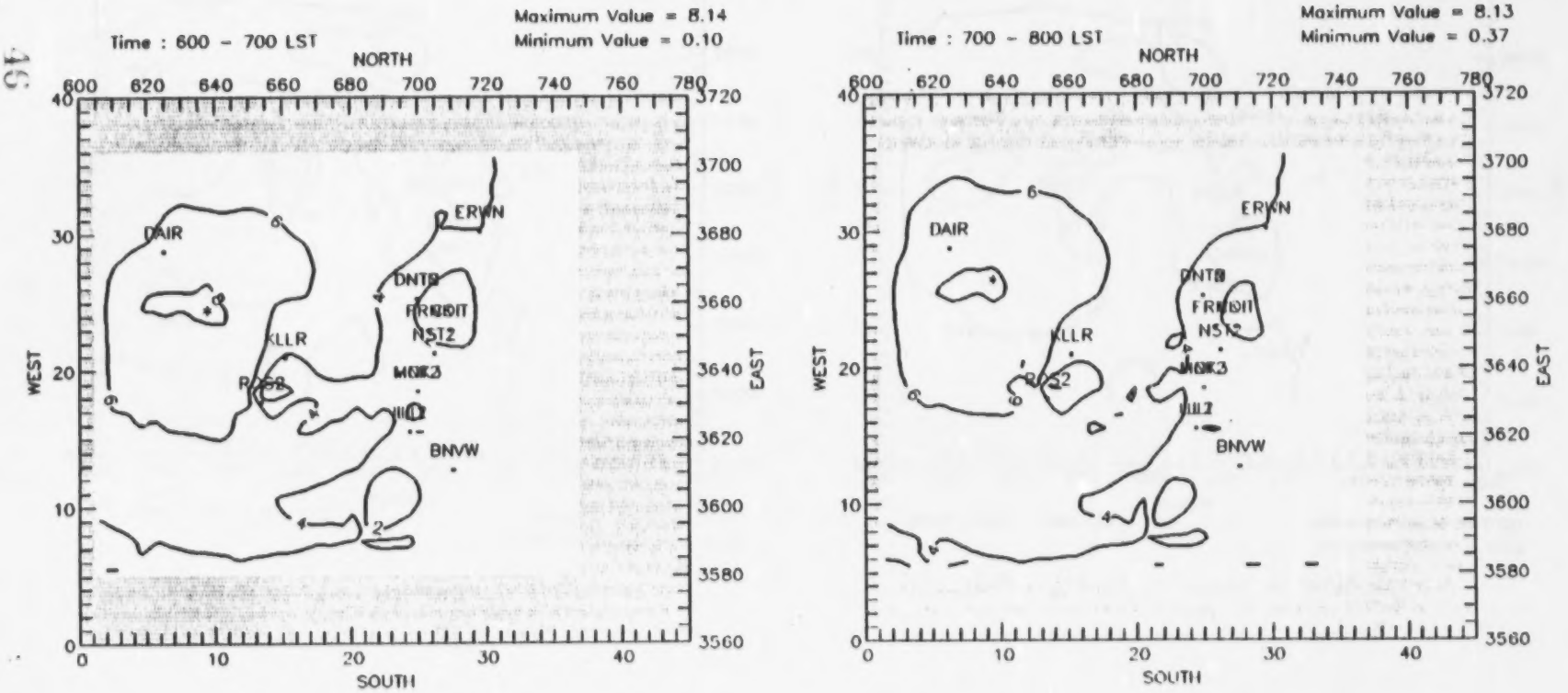




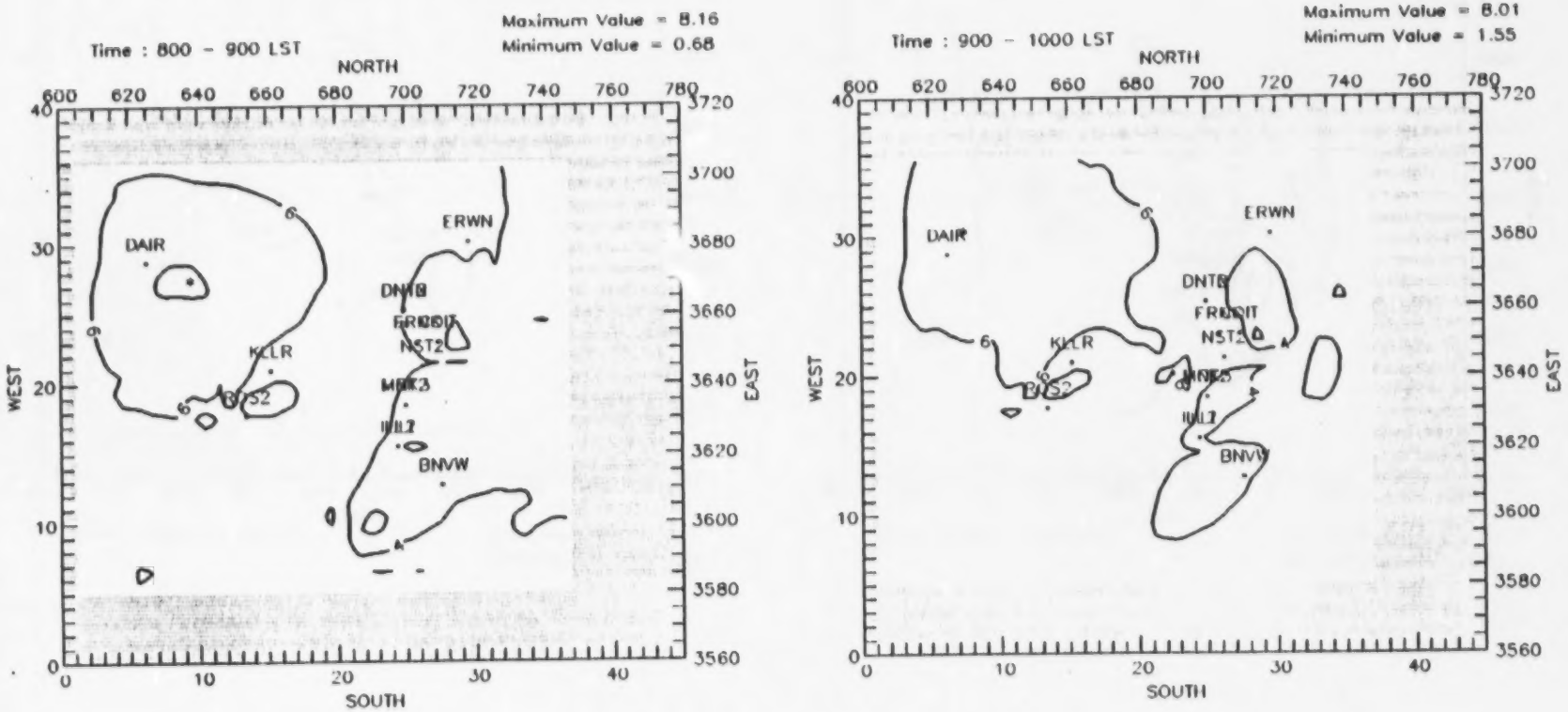
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.



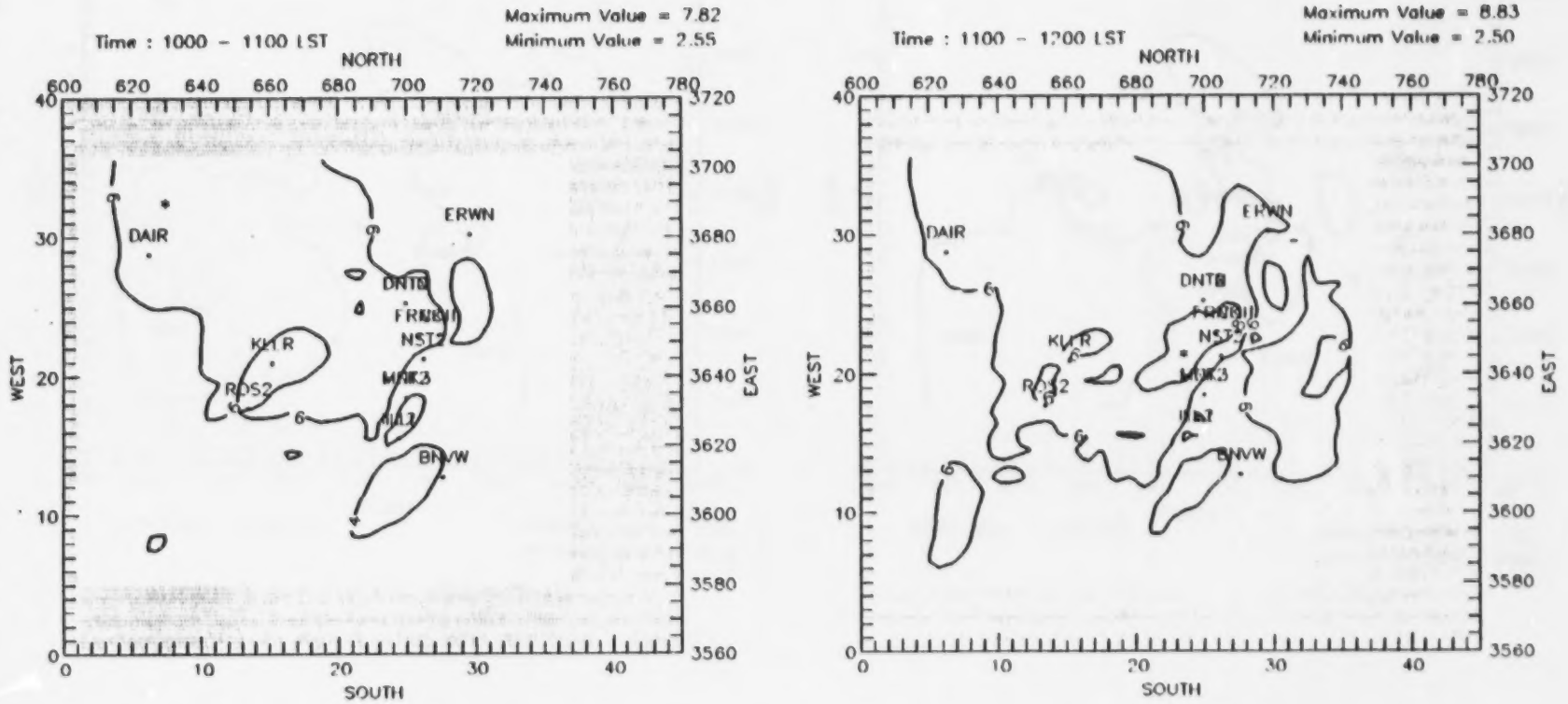
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.



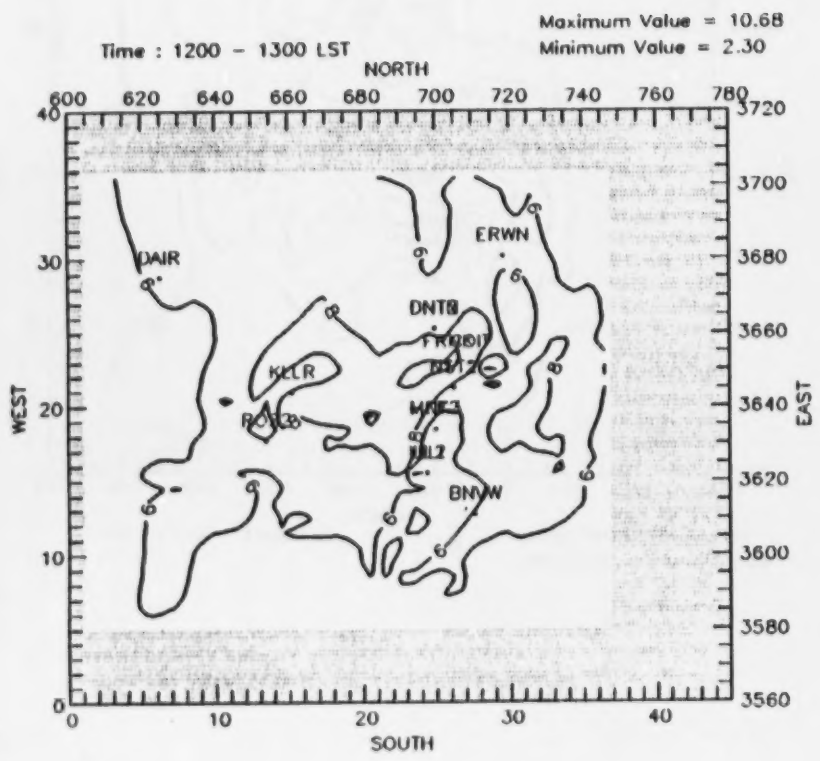
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.

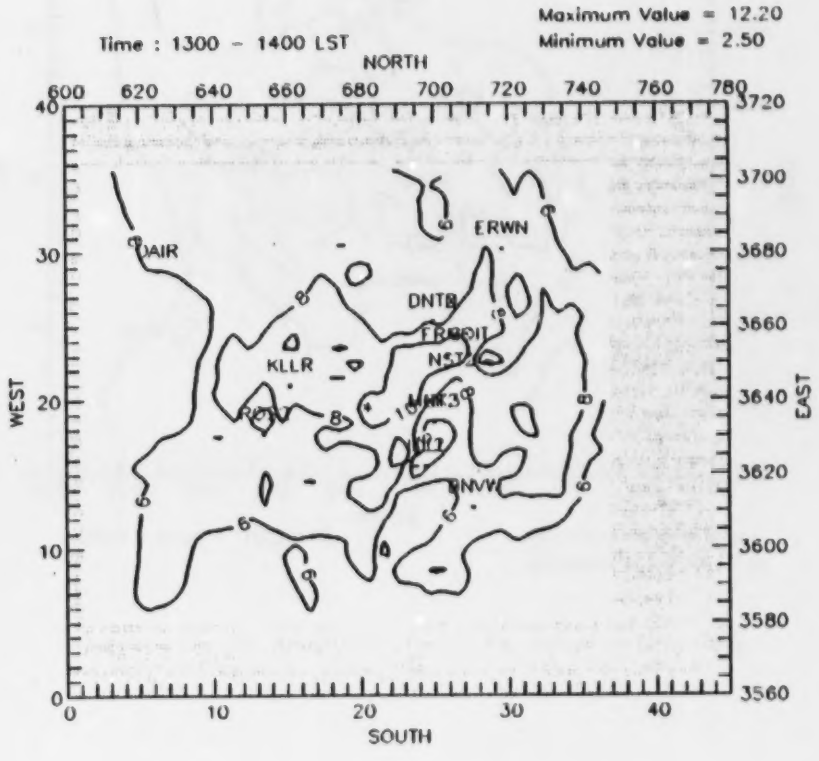


Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.

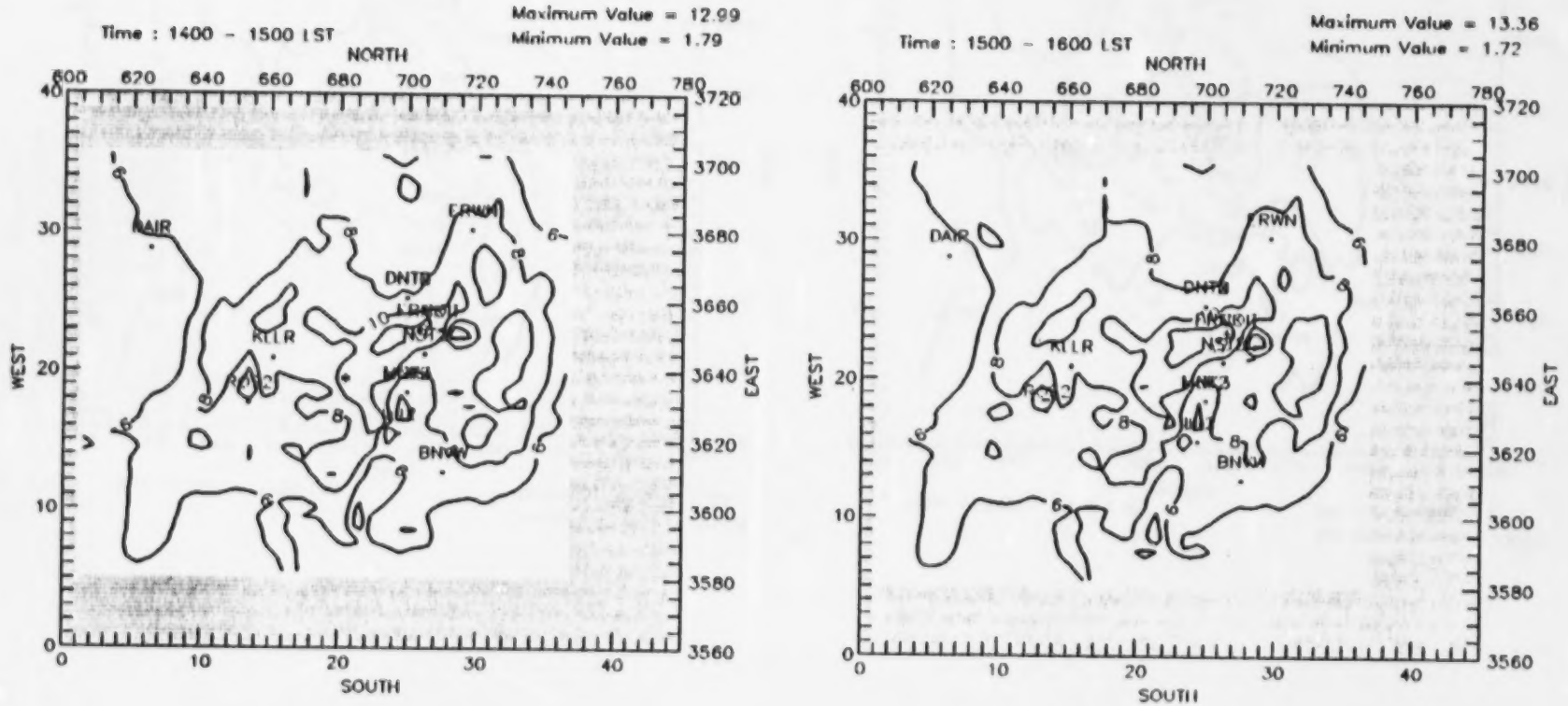


Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.

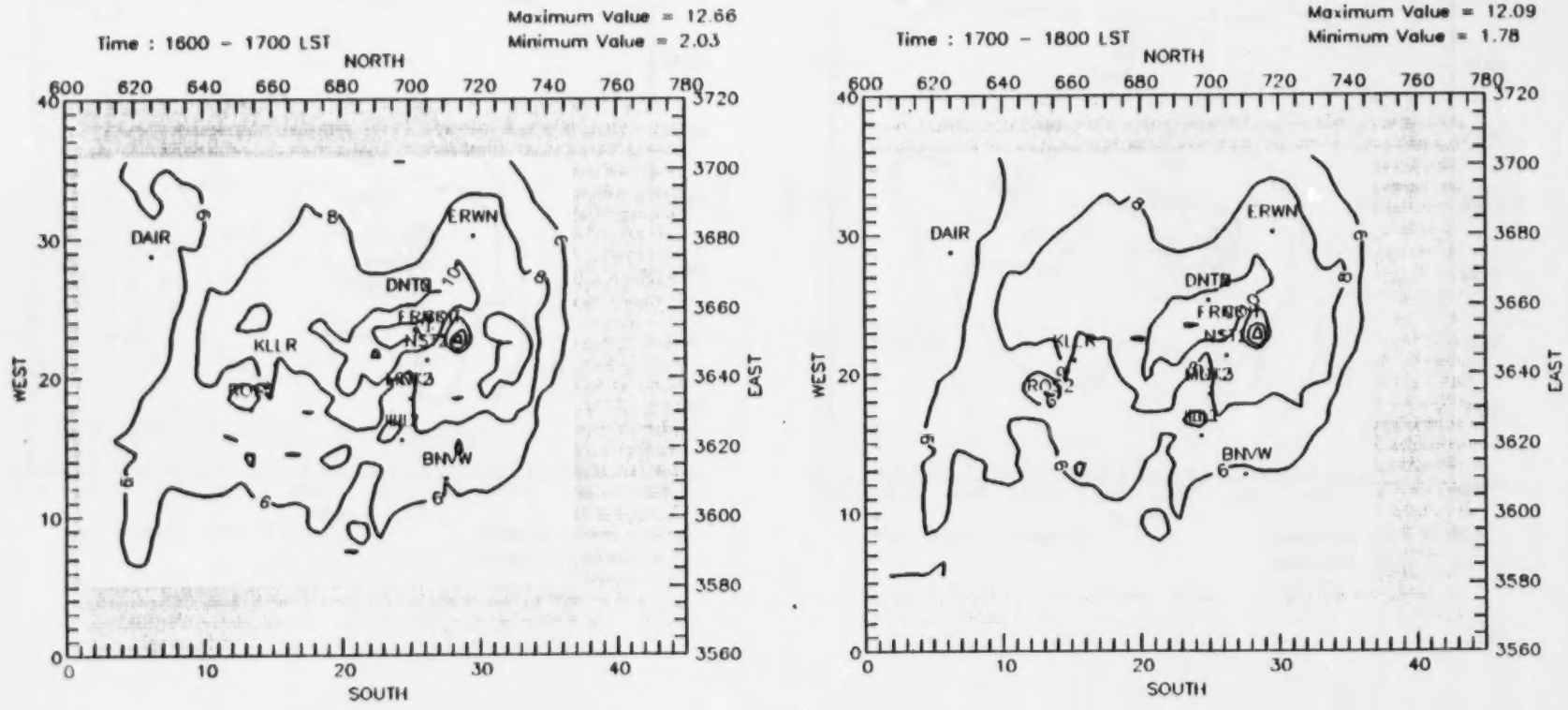




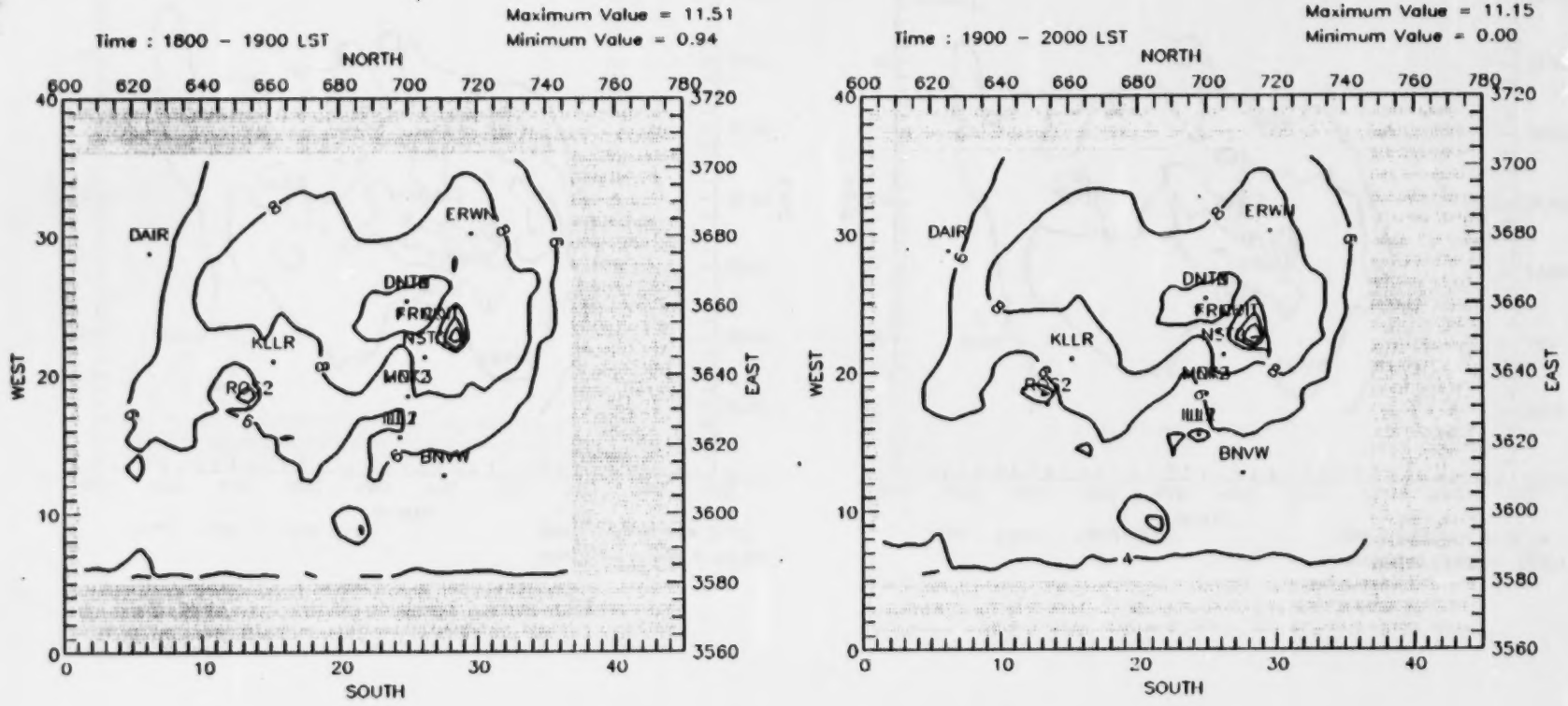
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.



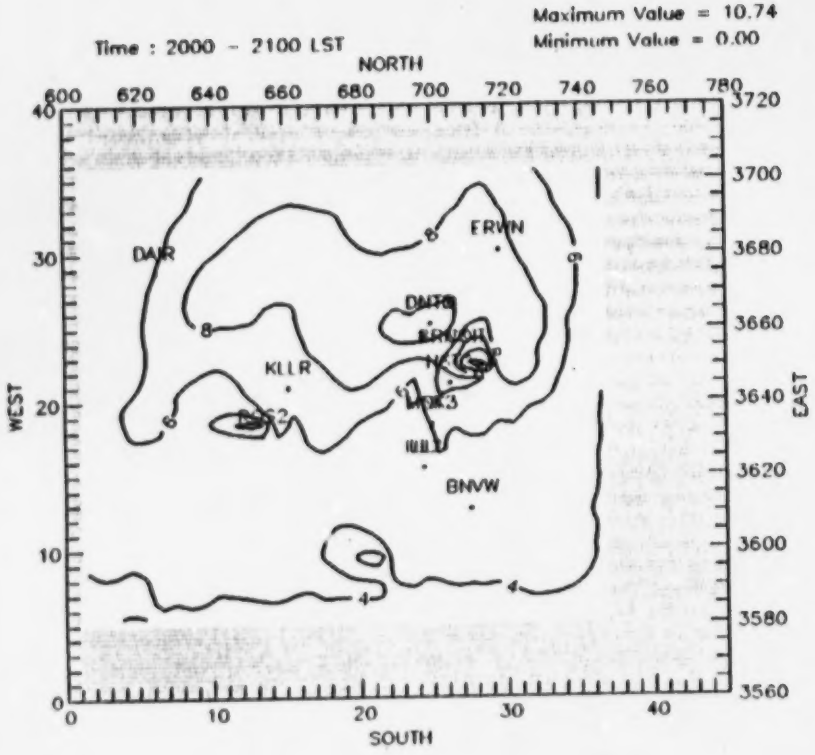
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.



Predicted ozone concentrations (pplm) for 1995 scenario #2 on 31 August 1985.



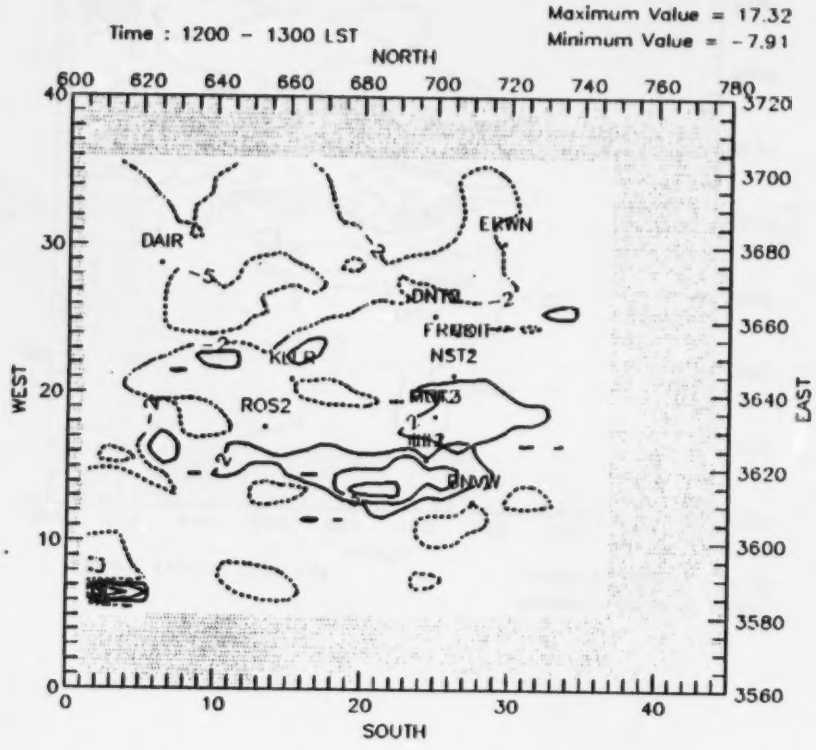
Predicted ozone concentrations (pphm) for 1995 scenario #2 on 31 August 1985.

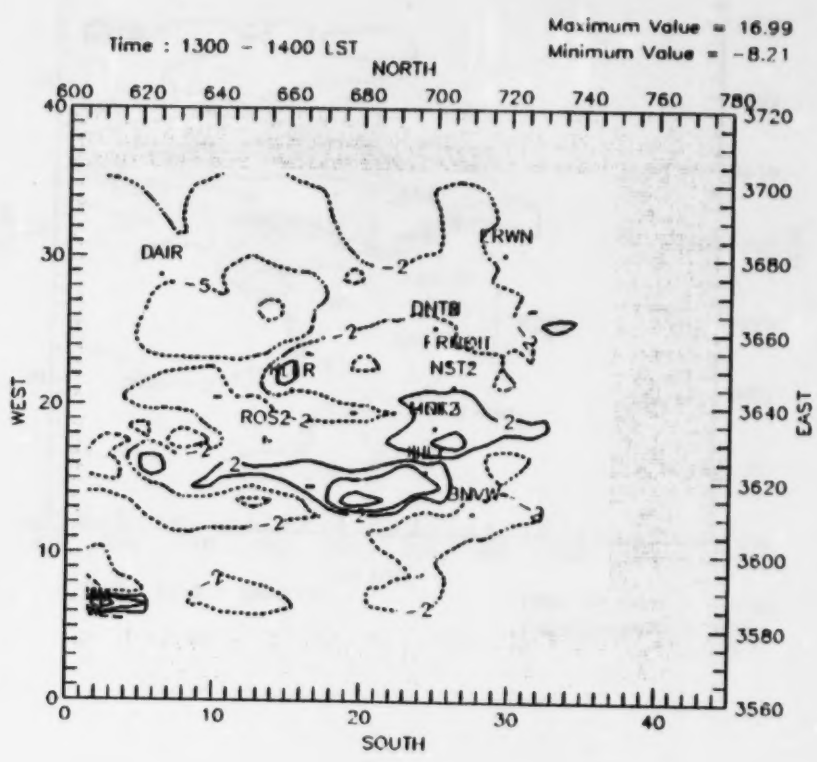


Predicted ozone concentrations (pptm) for 1995 scenario #2 on 31 August 1985.

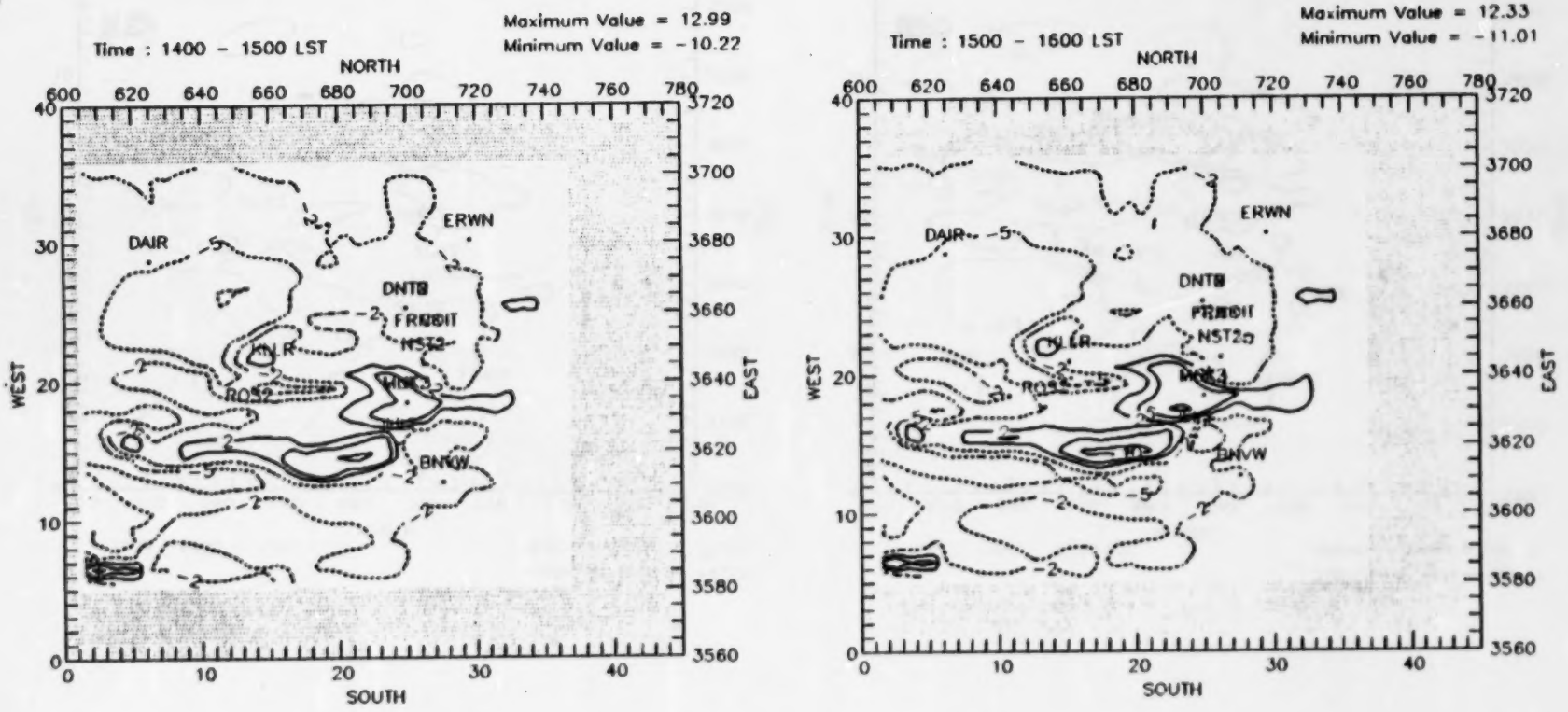
Appendix E

DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) BETWEEN DALLAS-FORT WORTH 1995 SCENARIO #1 AND 1995 BASE CASE (SCENARIO #1 MINUS BASE CASE)

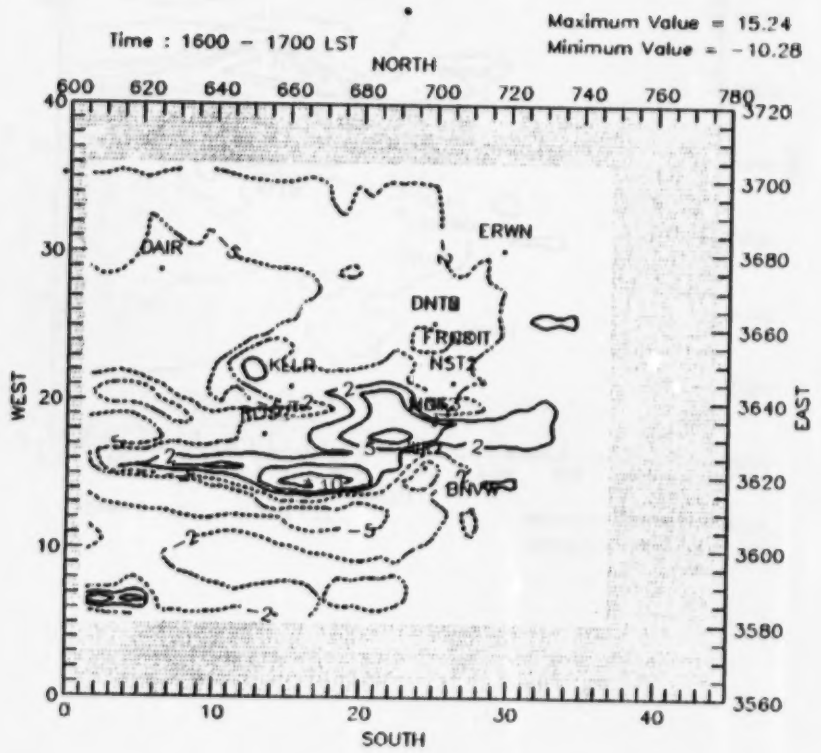


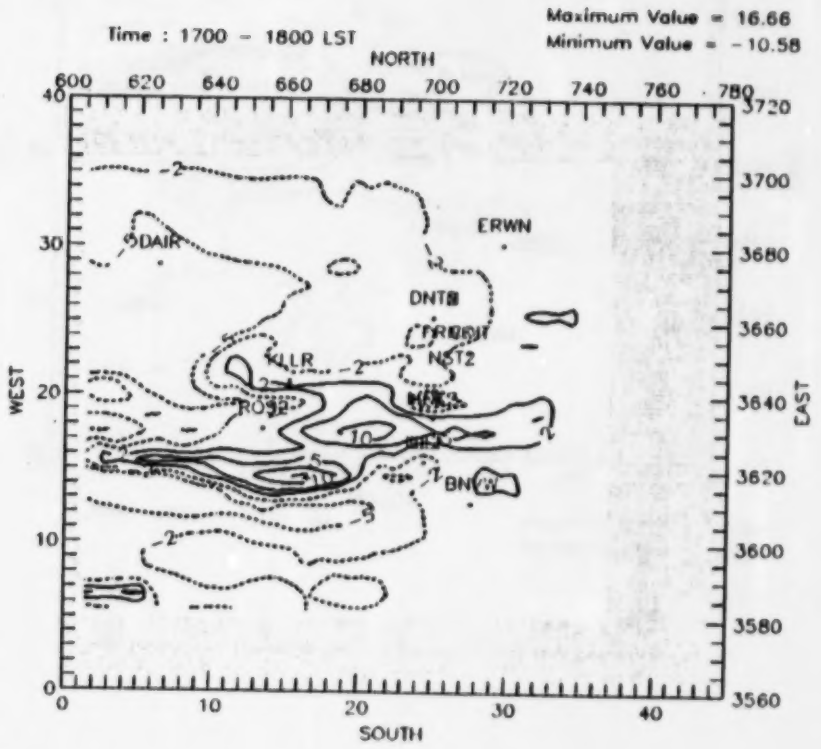


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 30 August, 1985.

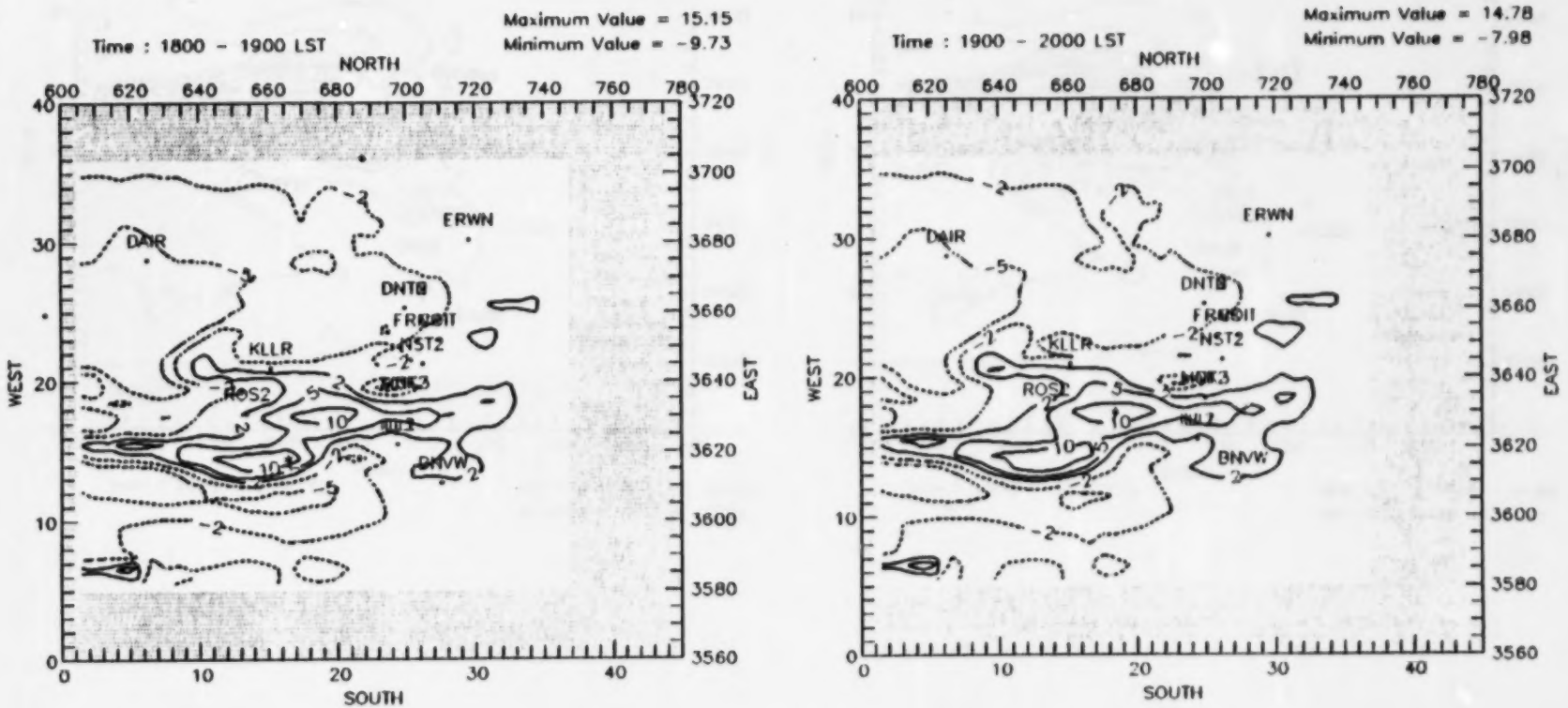


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 30 August, 1985.

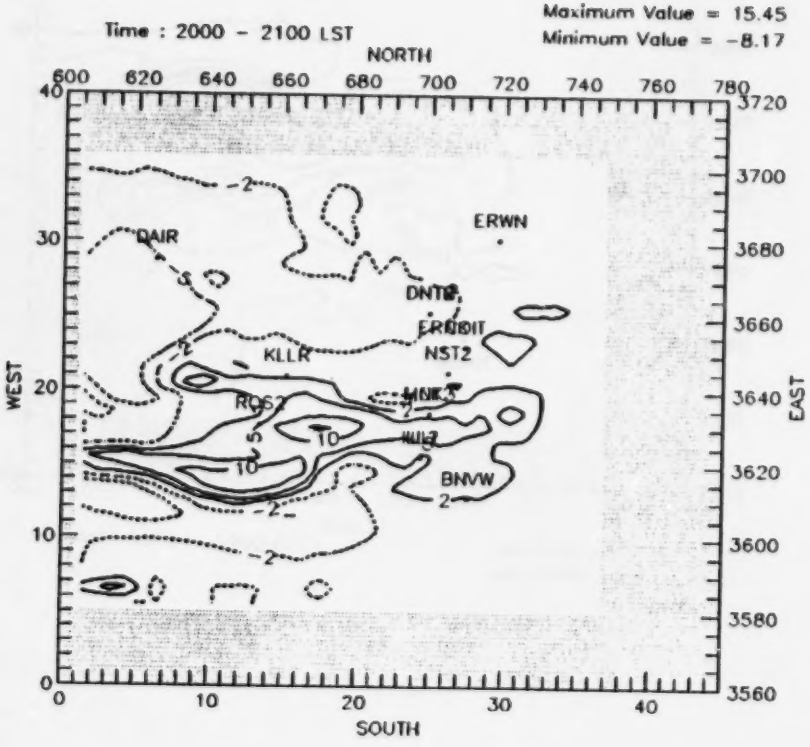


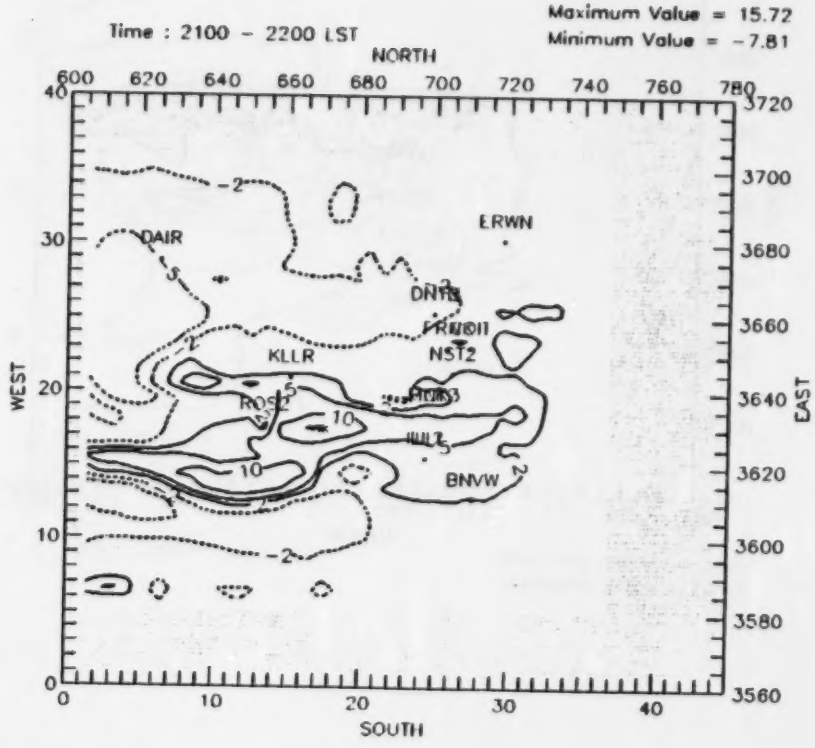


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 30 August, 1985.

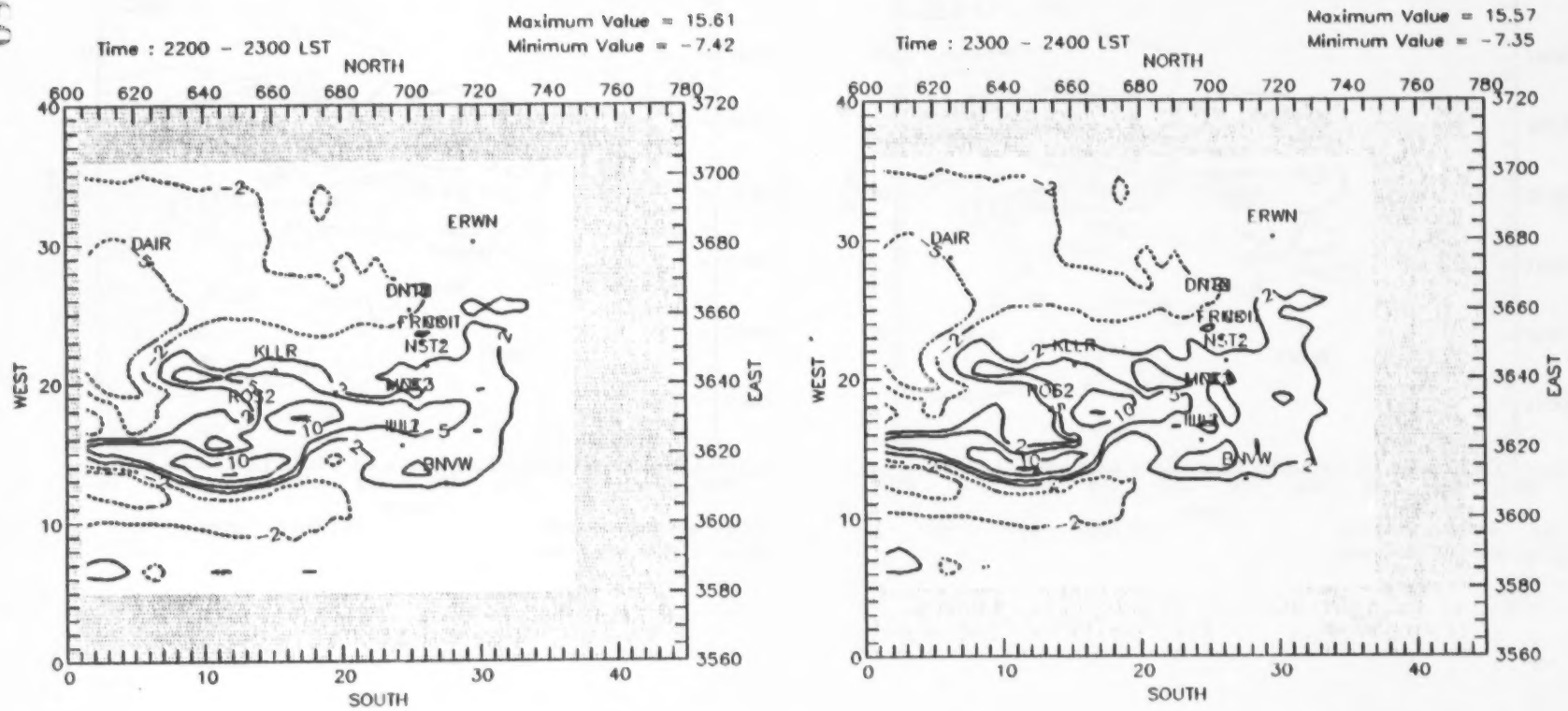


Differences in hourly ozone concentrations (ppb) for Dallas–Fort Worth between 1995 scenario #1 and 1995 base case on 30 August, 1985.

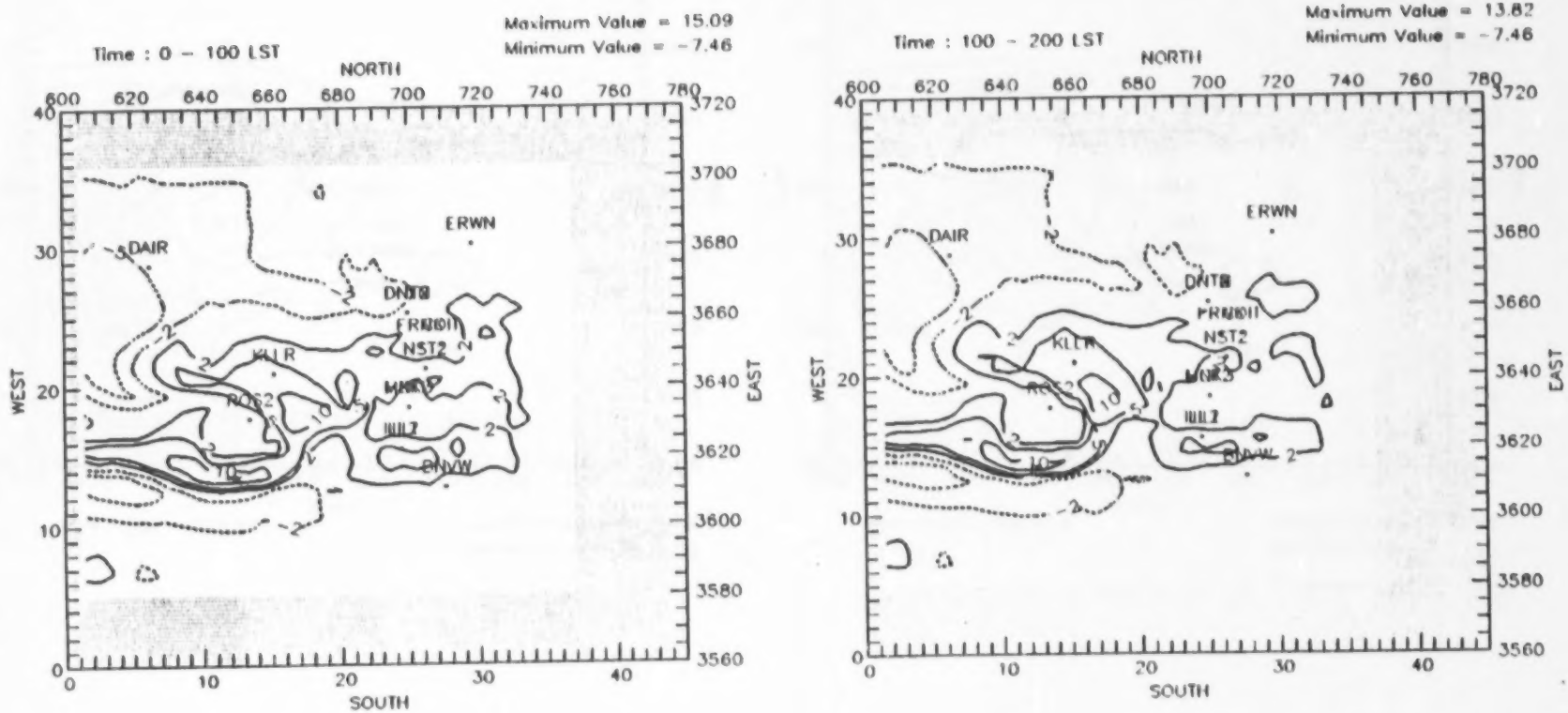




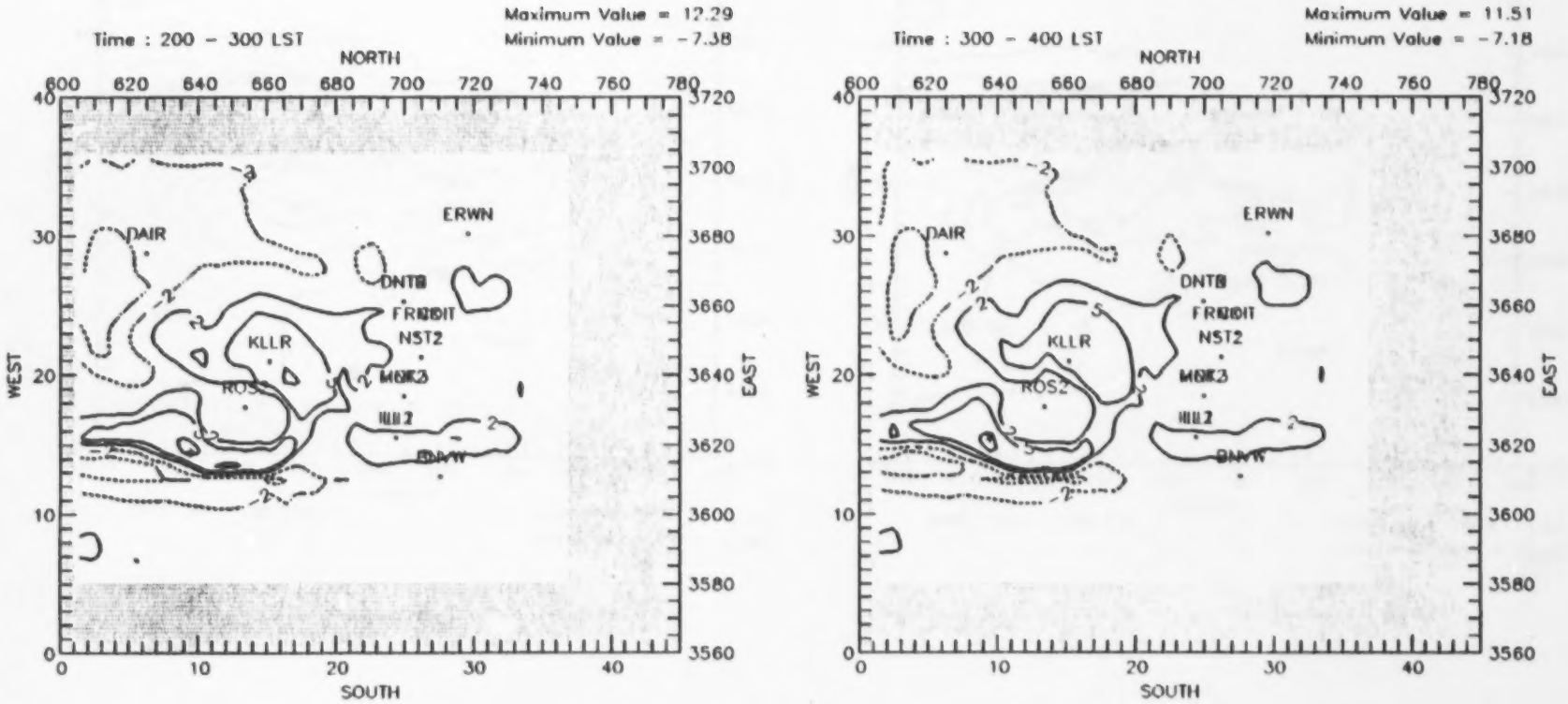
Differences in hourly ozone concentrations (ppb) for Dallas--Fort Worth between 1995 scenario #1 and 1995 base case on 30 August, 1985.



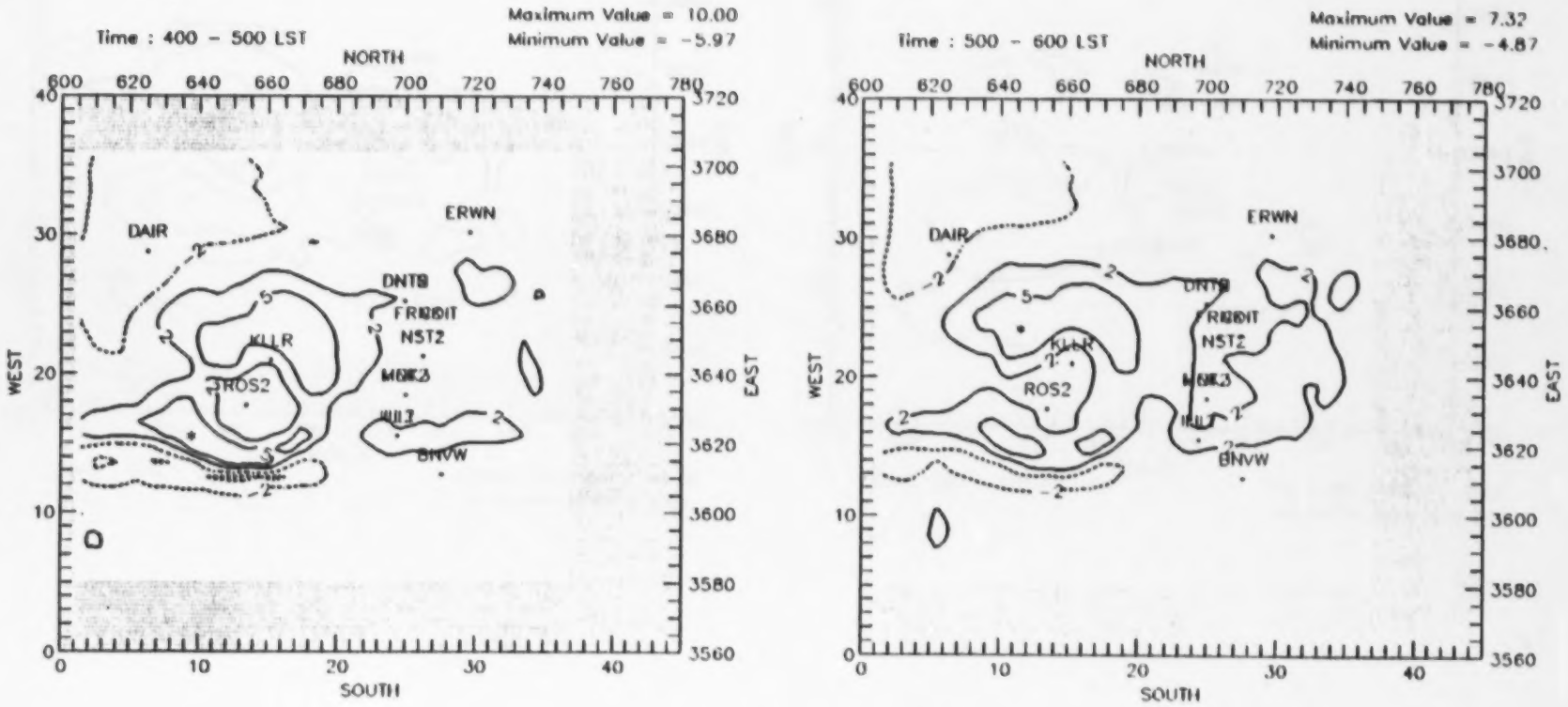
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 30 August, 1985.



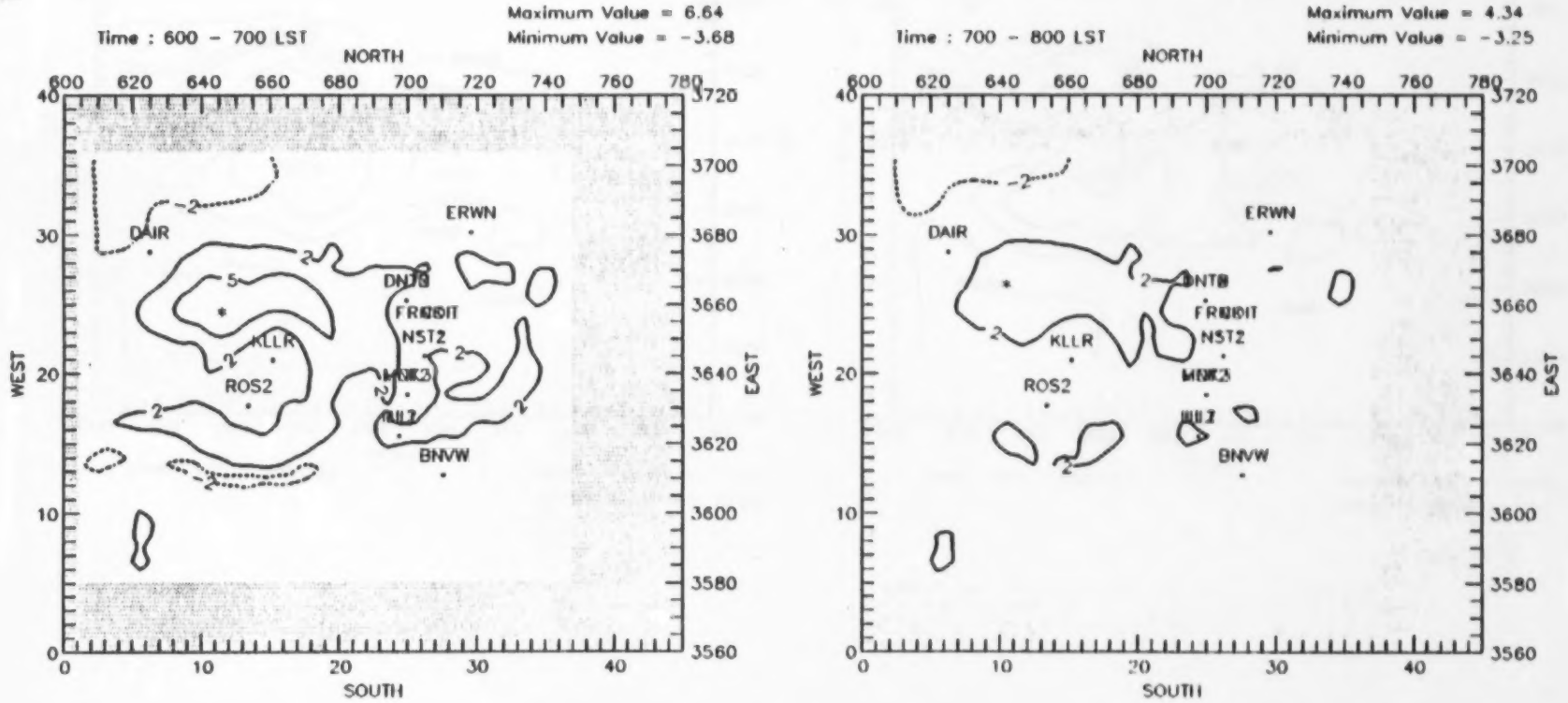
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.



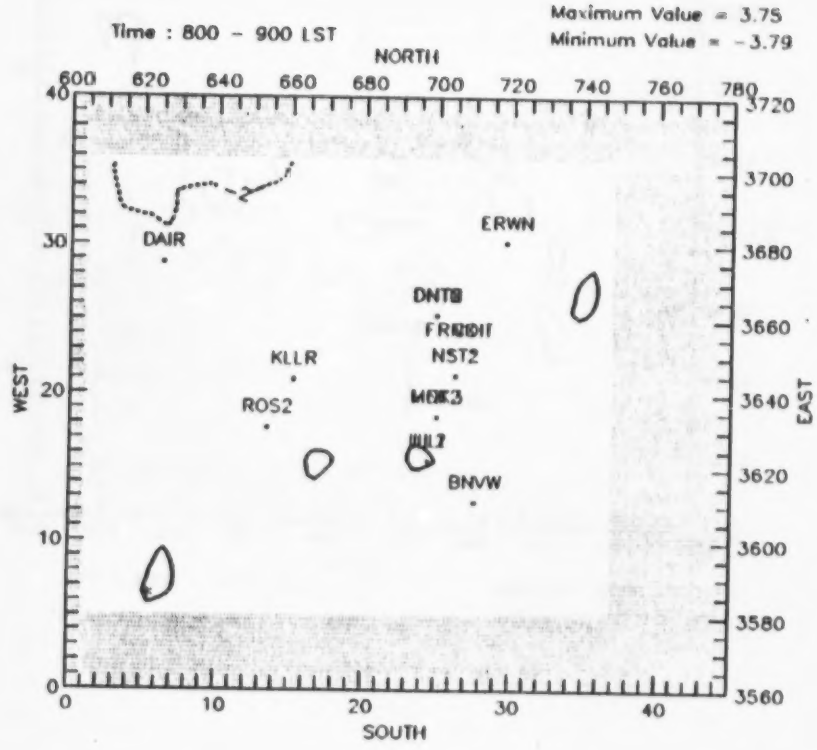
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.

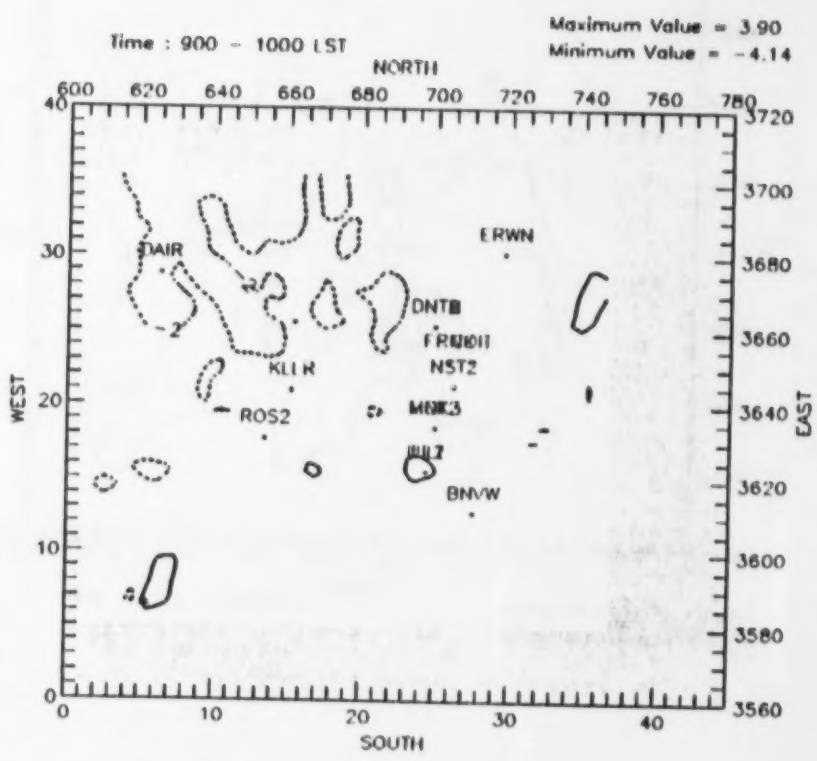


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.

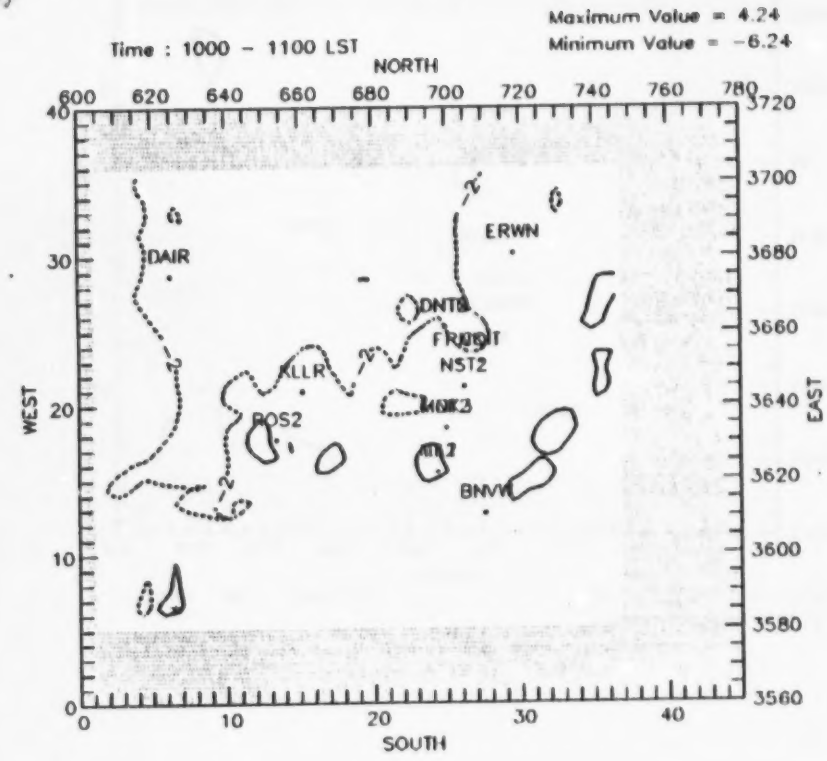


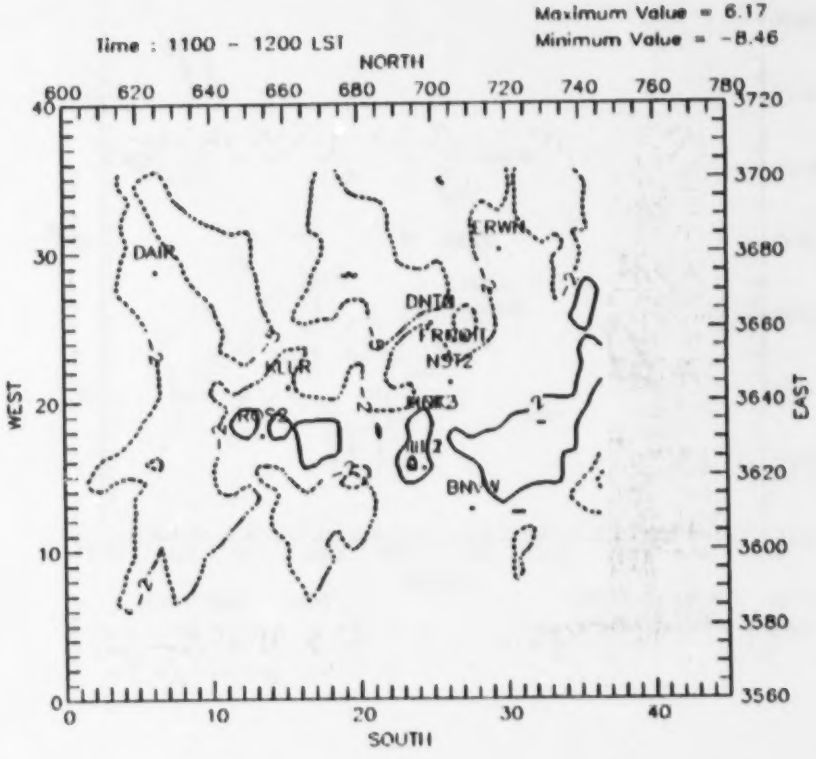
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.



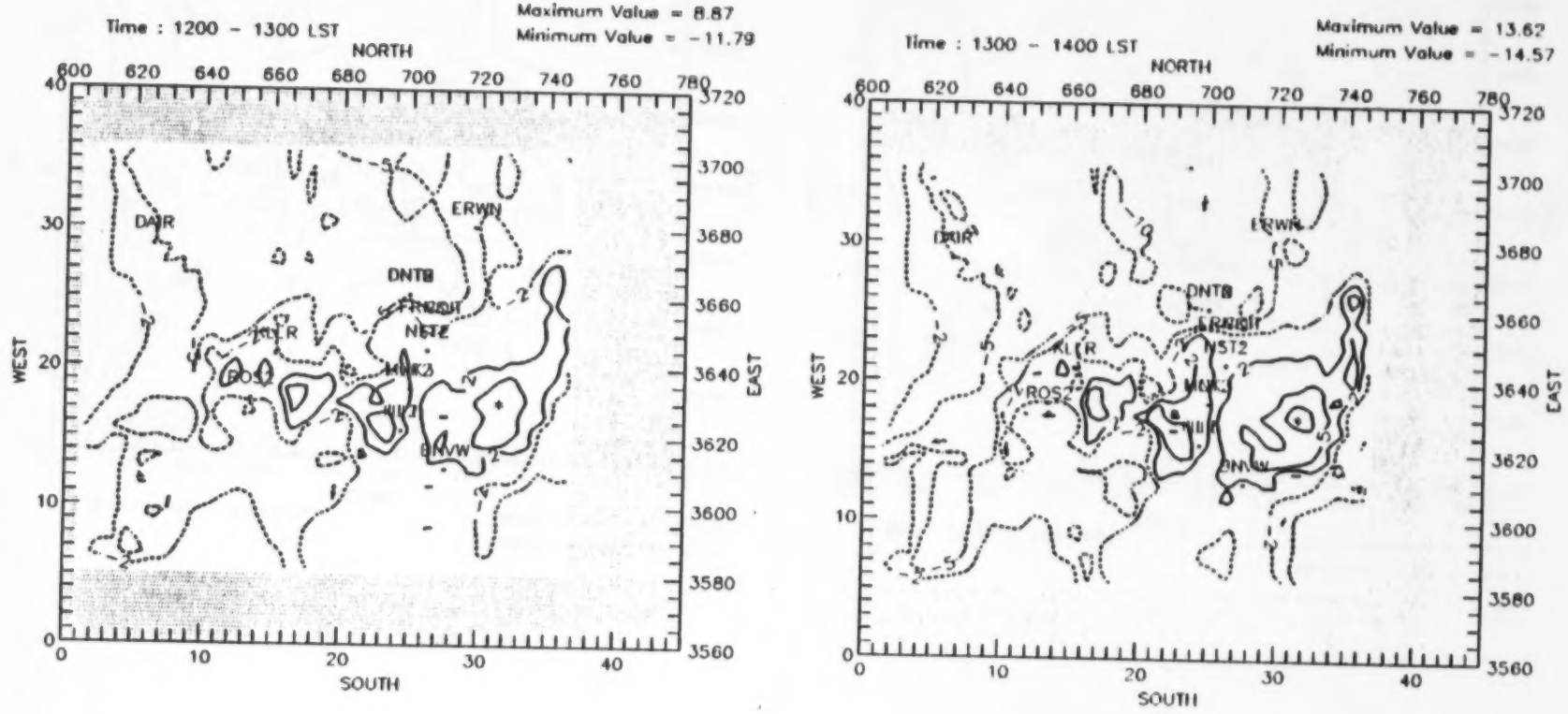


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.

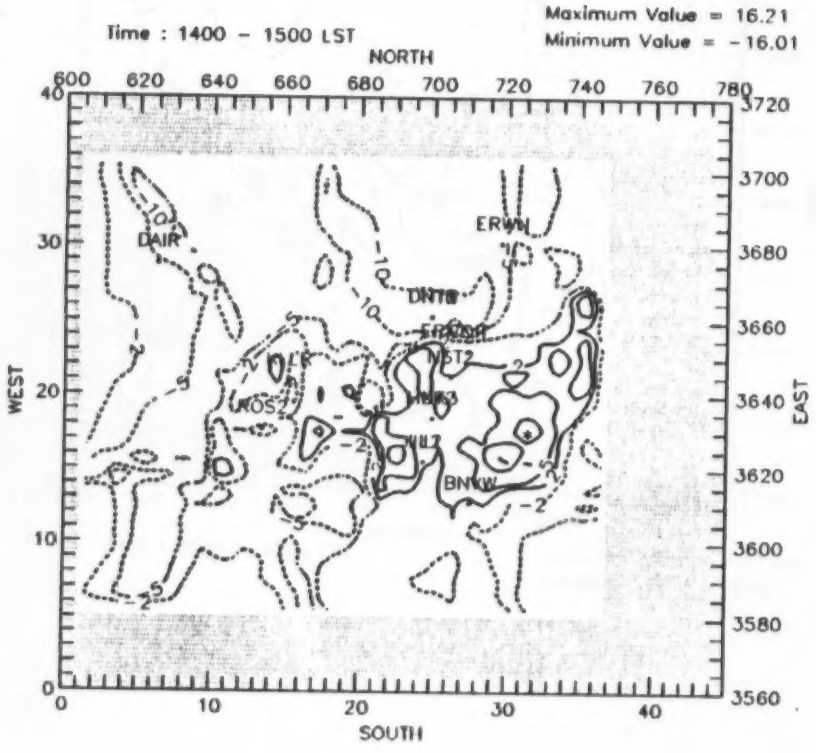


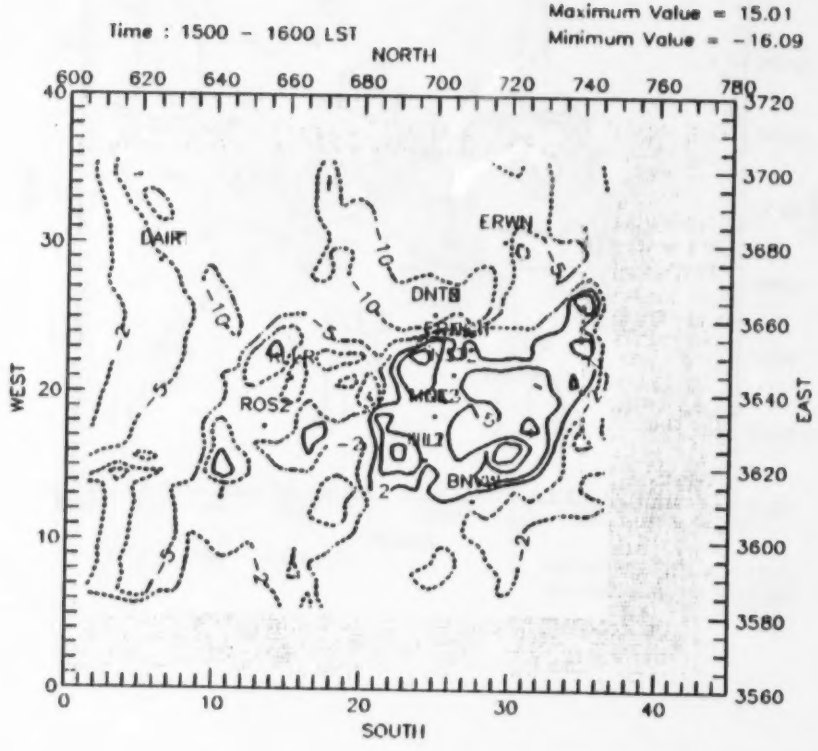


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.

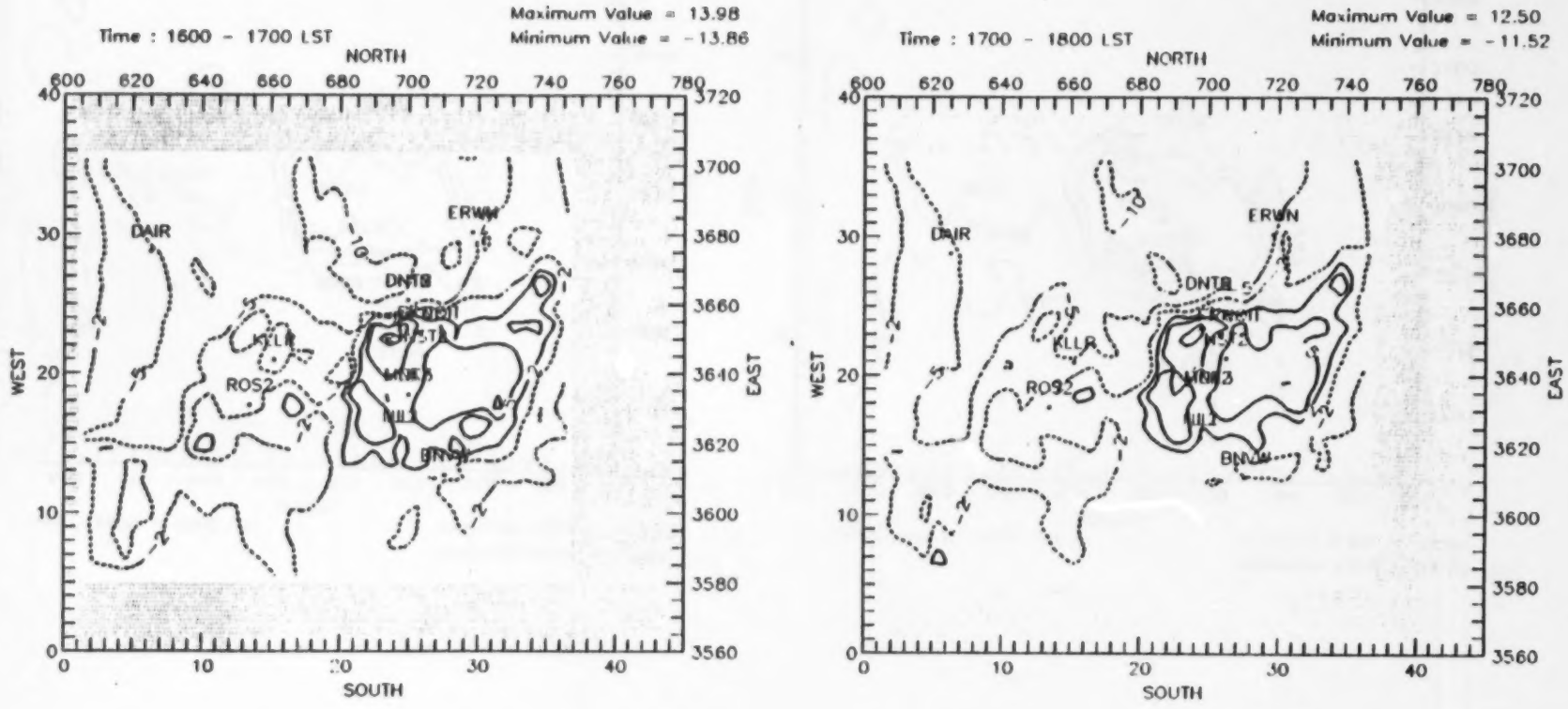


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.

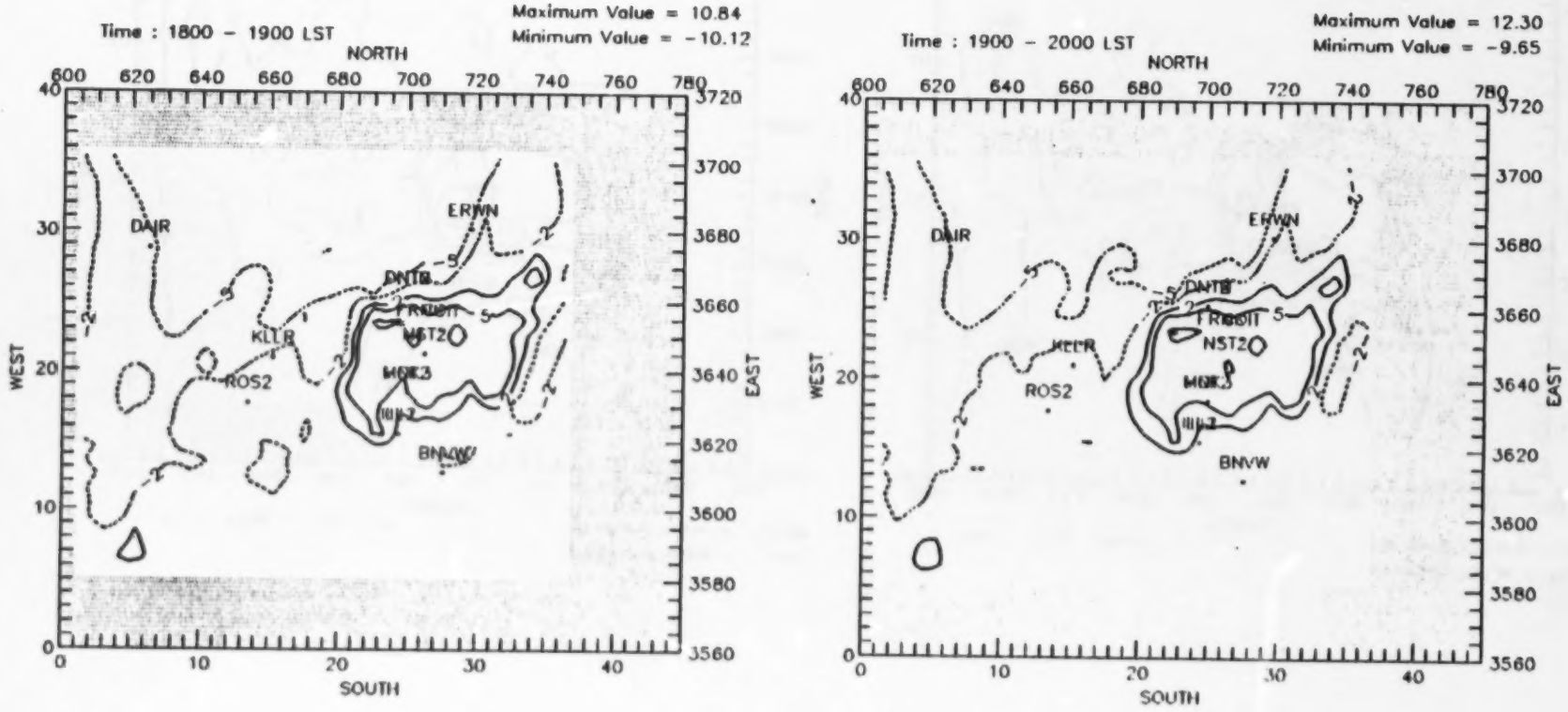




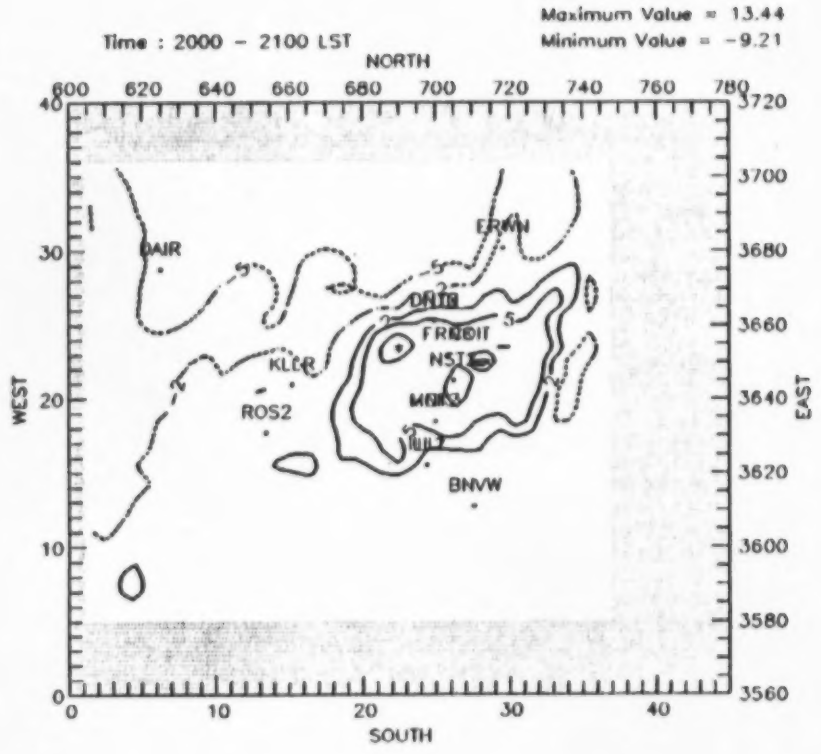
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.



Differences in hourly ozone concentrations (ppb) for Dallas–Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.



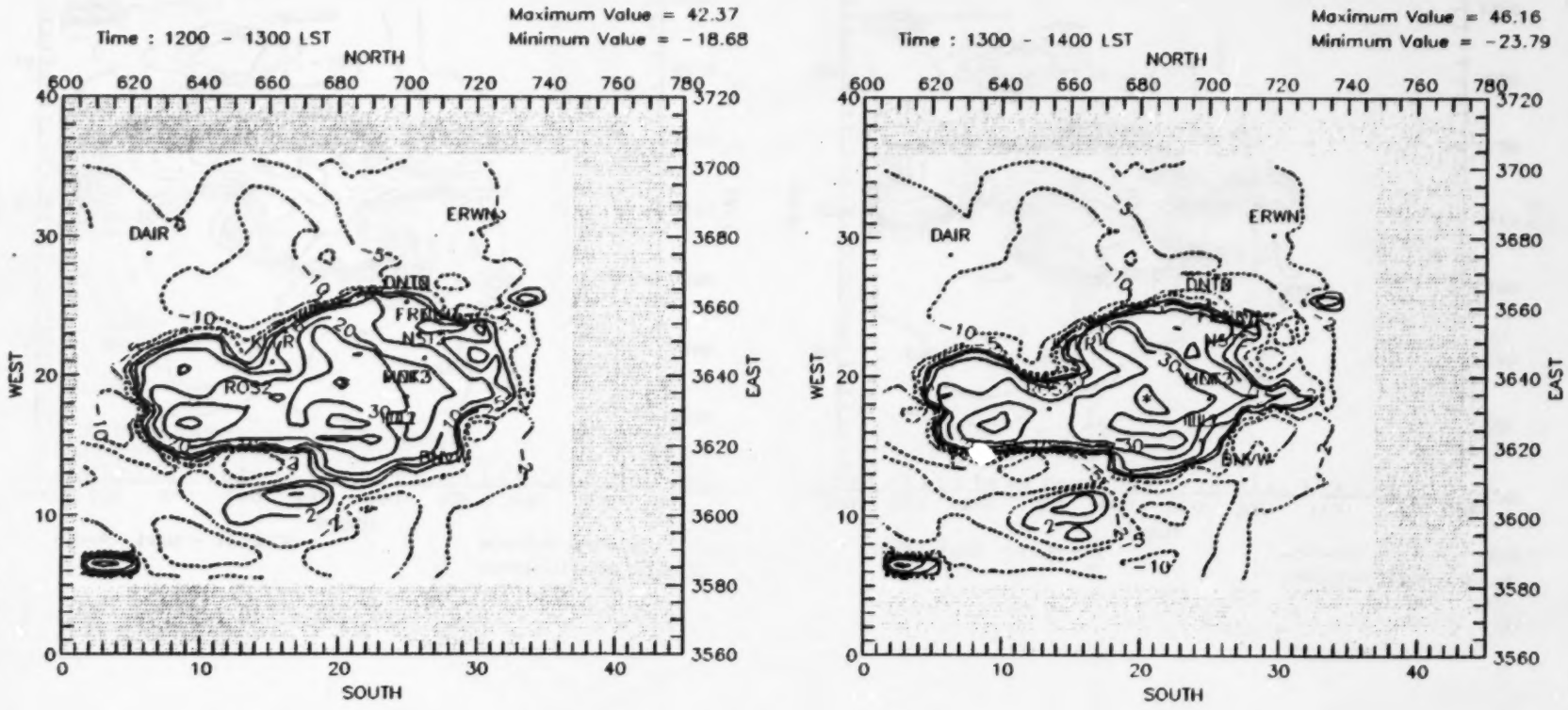
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.



Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #1 and 1995 base case on 31 August, 1985.

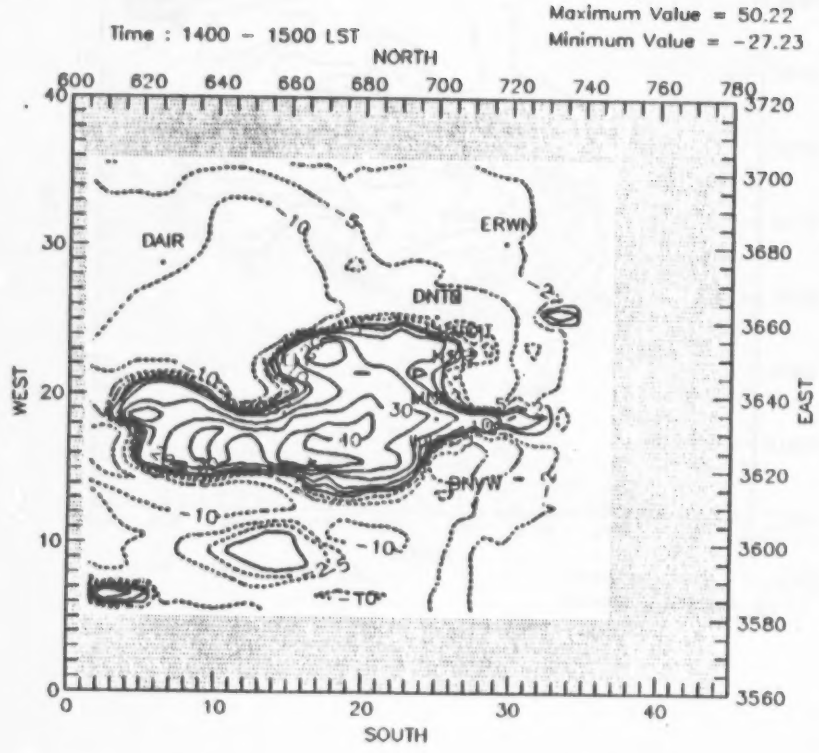
Appendix F

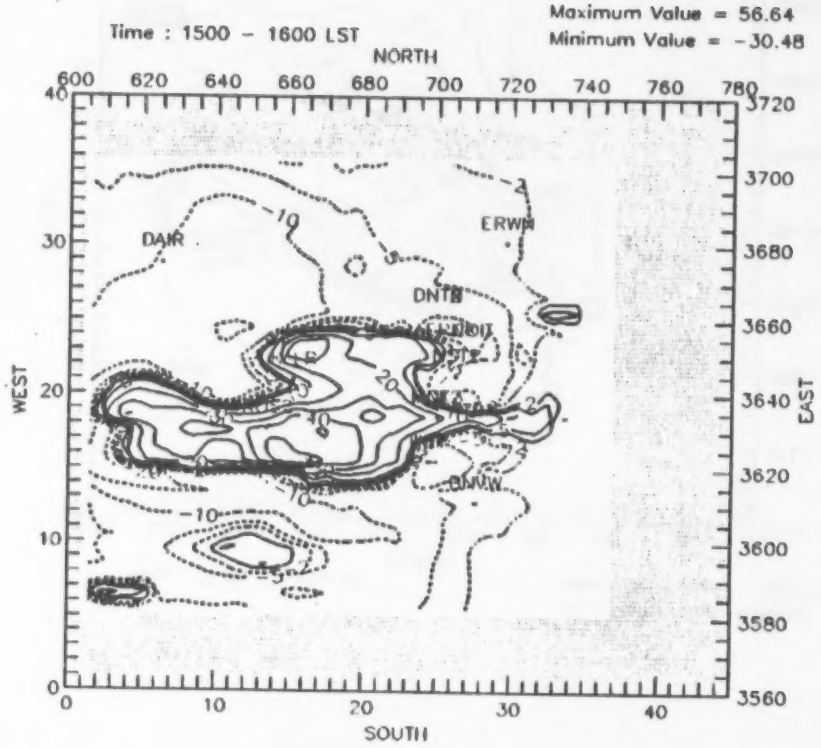
DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb)
BETWEEN DALLAS-FORT WORTH 1995 SCENARIO #2 AND
1995 BASE CASE (SCENARIO #2 MINUS BASE CASE)



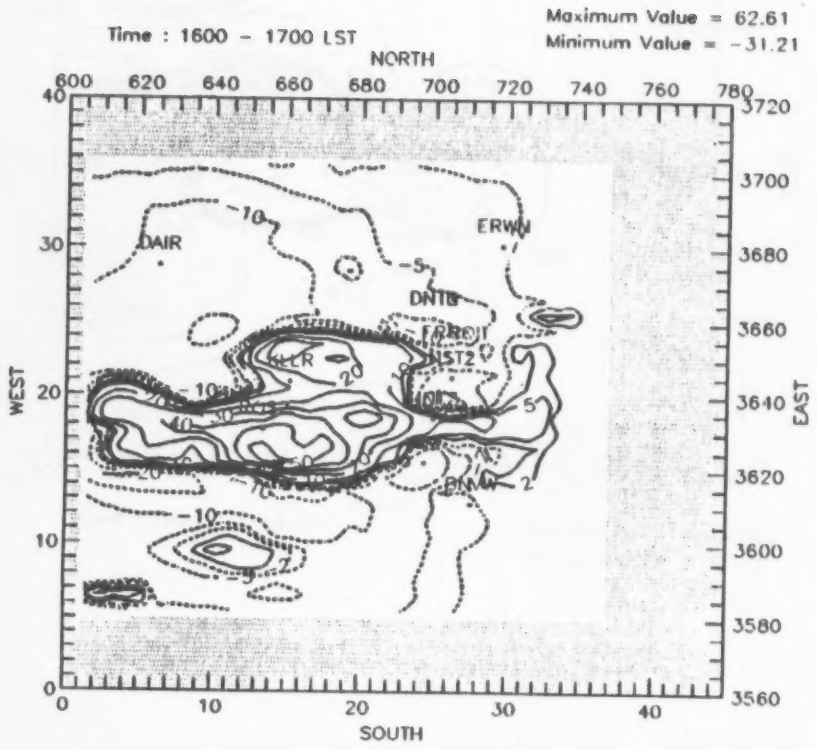
Differences in hourly ozone concentrations (ppb) for Dallas–Fort Worth between 1995 scenario #2 and 1995 base case on 30 August, 1985.

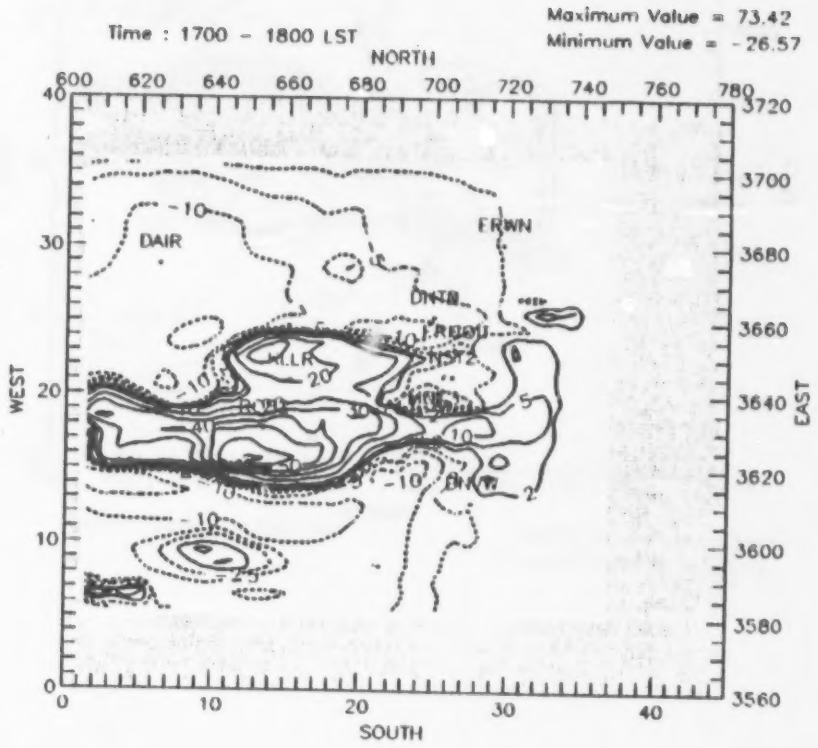
Reproduced from
best available copy.



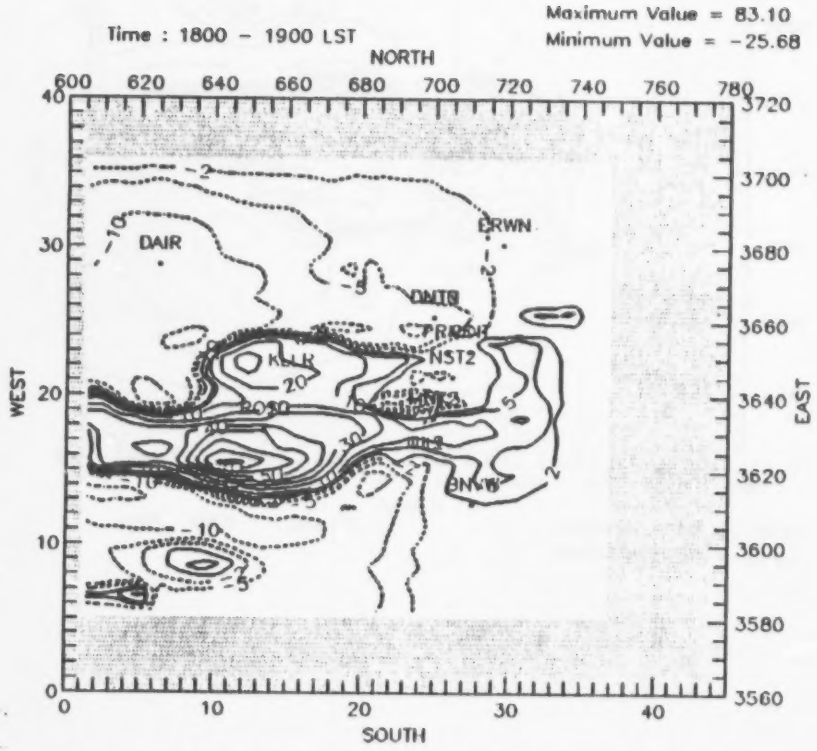


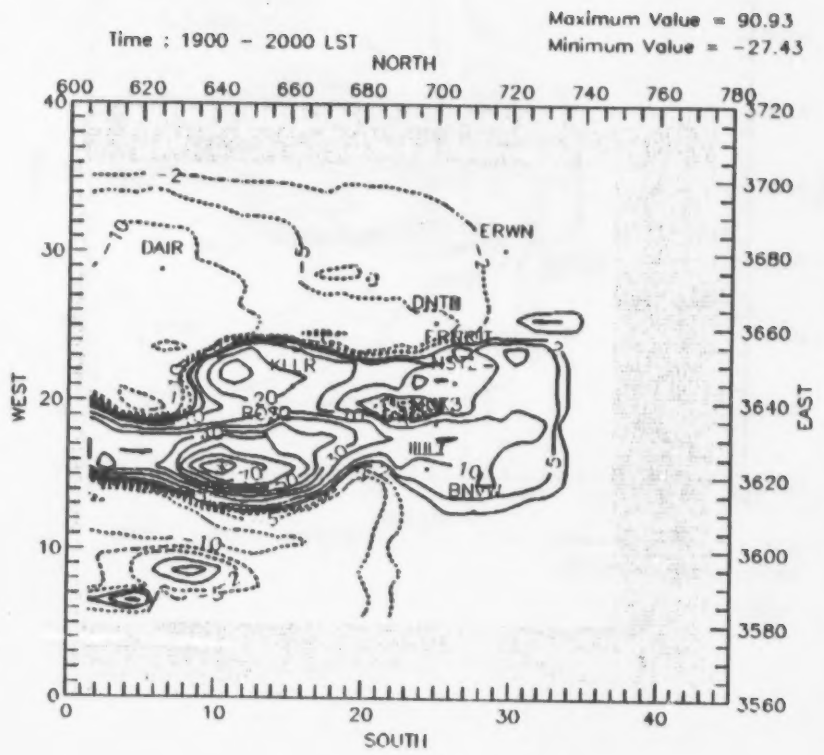
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 30 August, 1985.



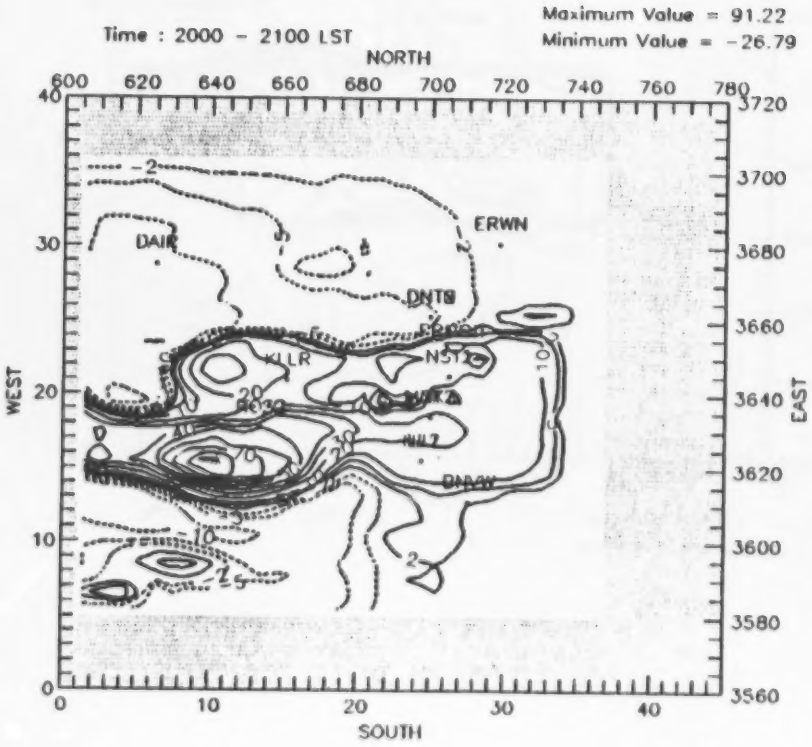


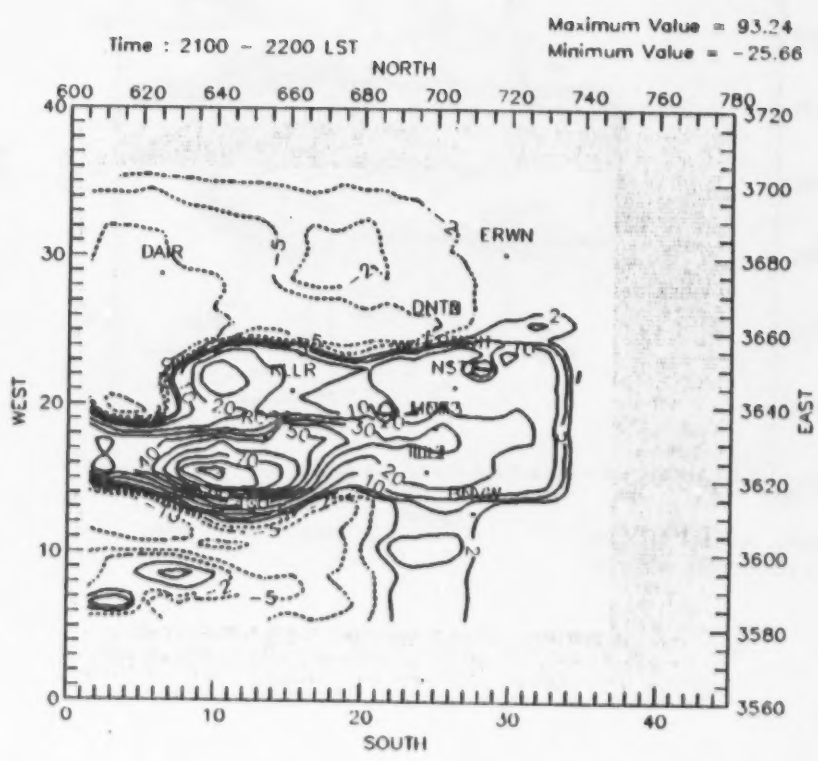
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 30 August, 1985.



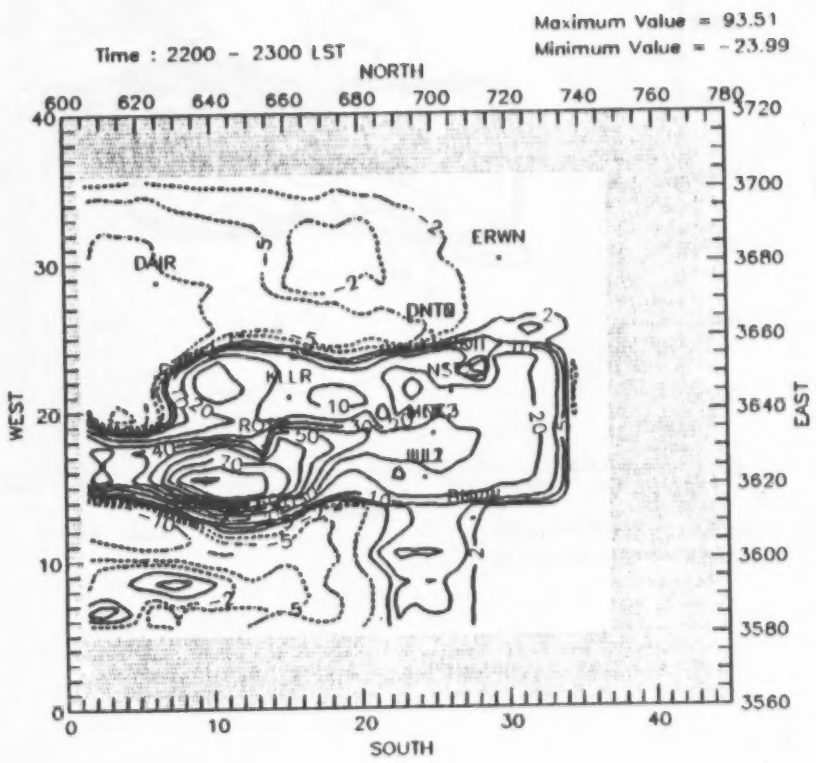


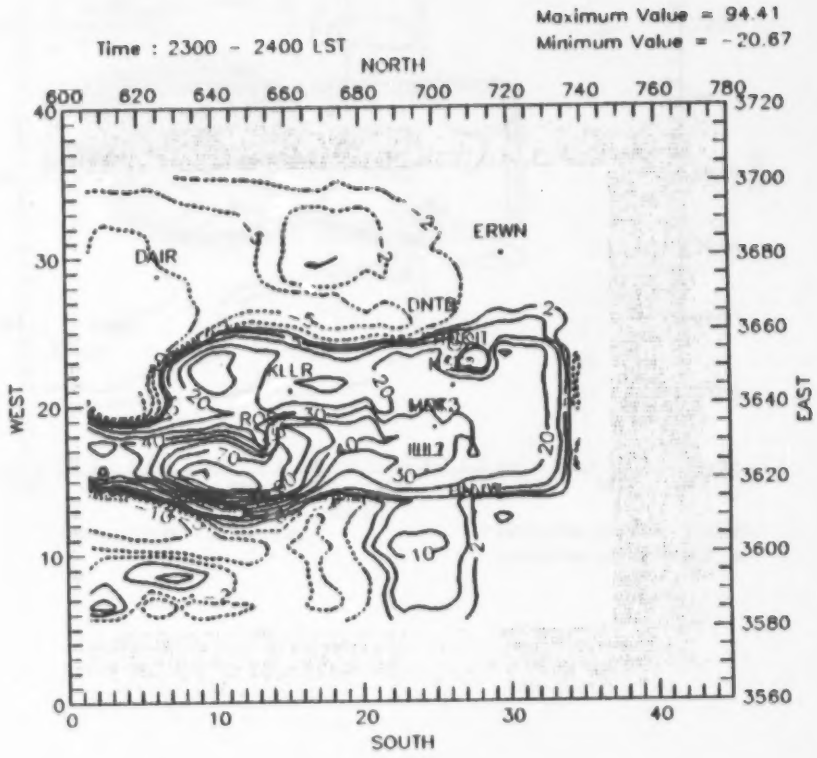
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 30 August, 1985.



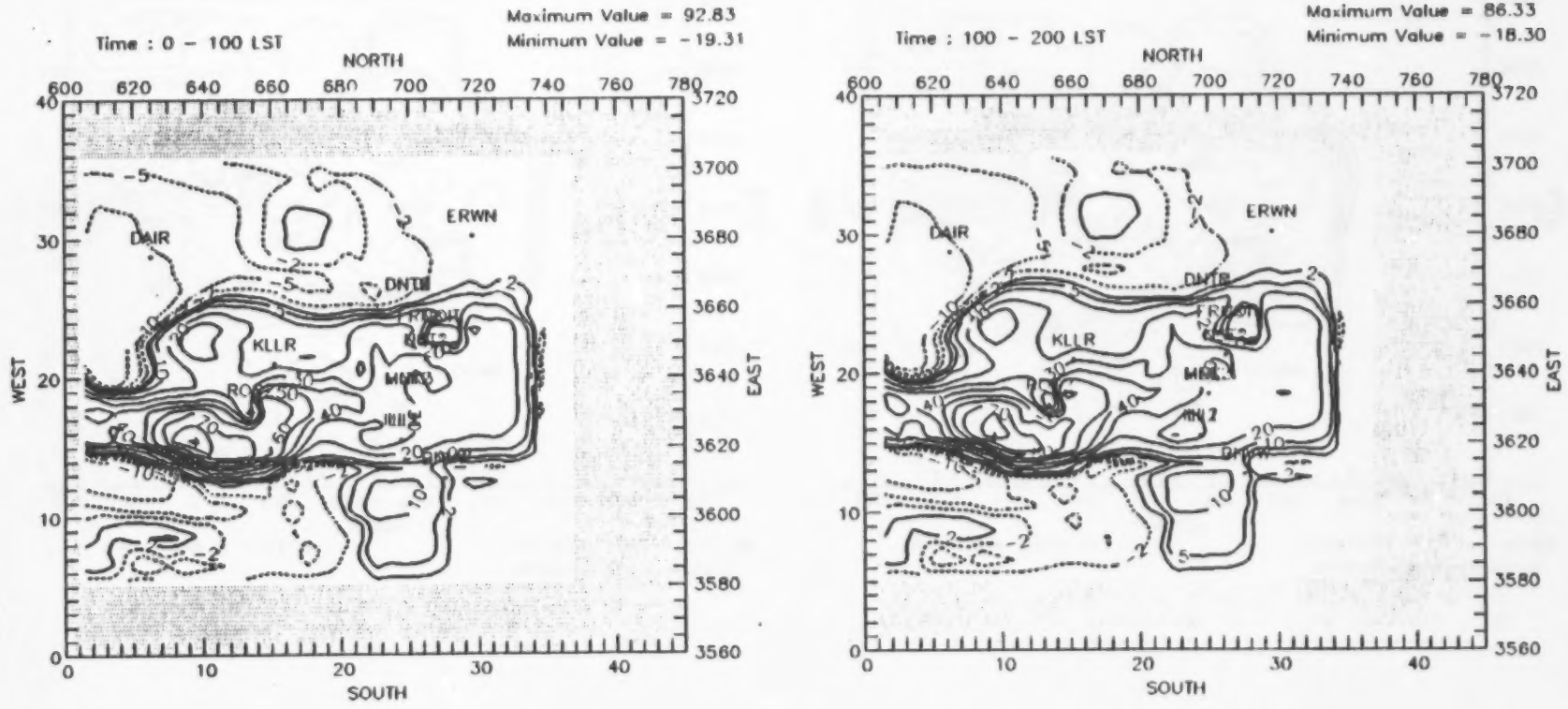


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 30 August, 1985.

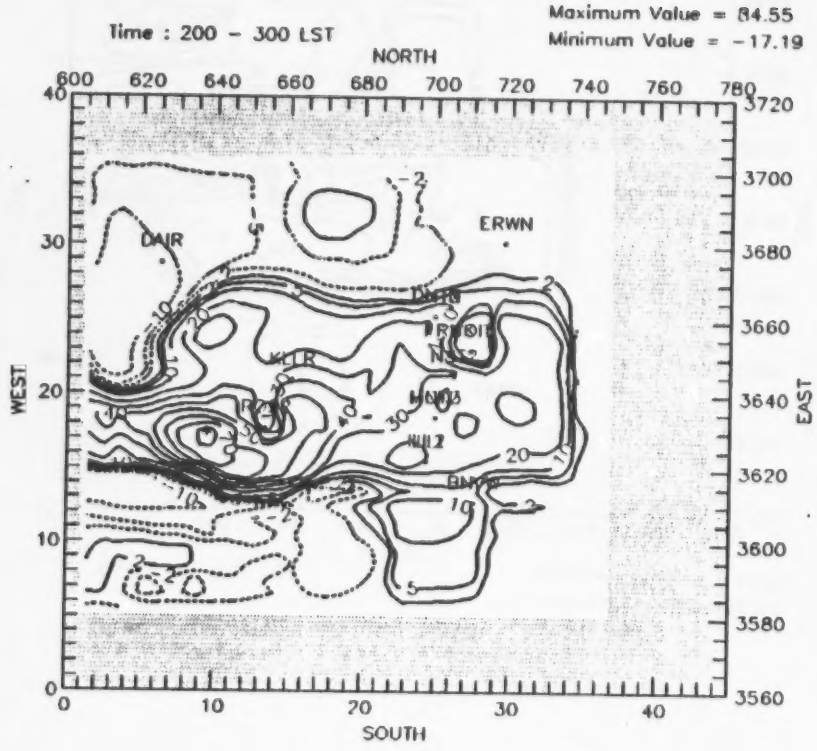


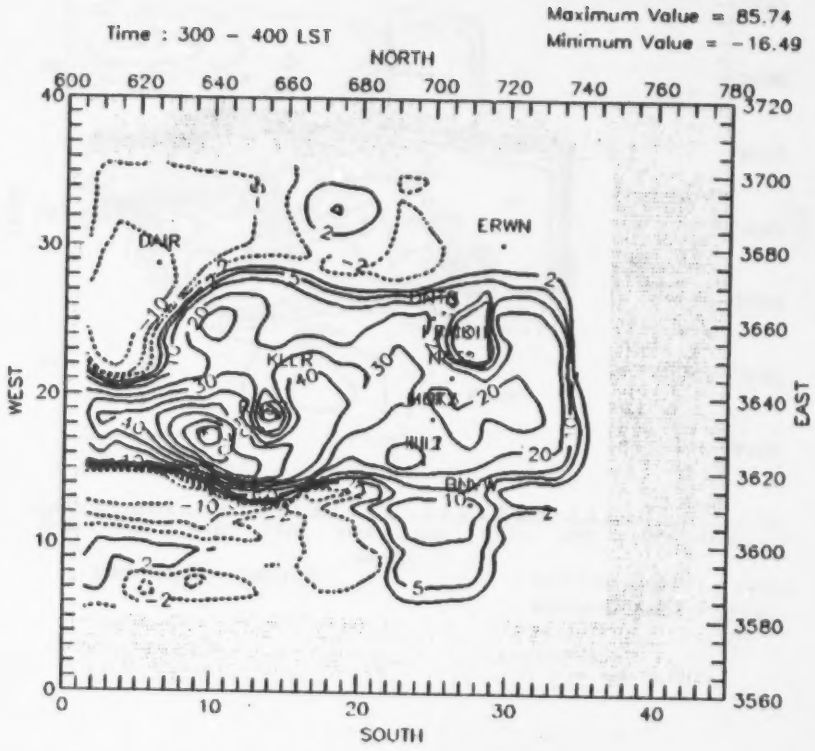


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 30 August, 1985.

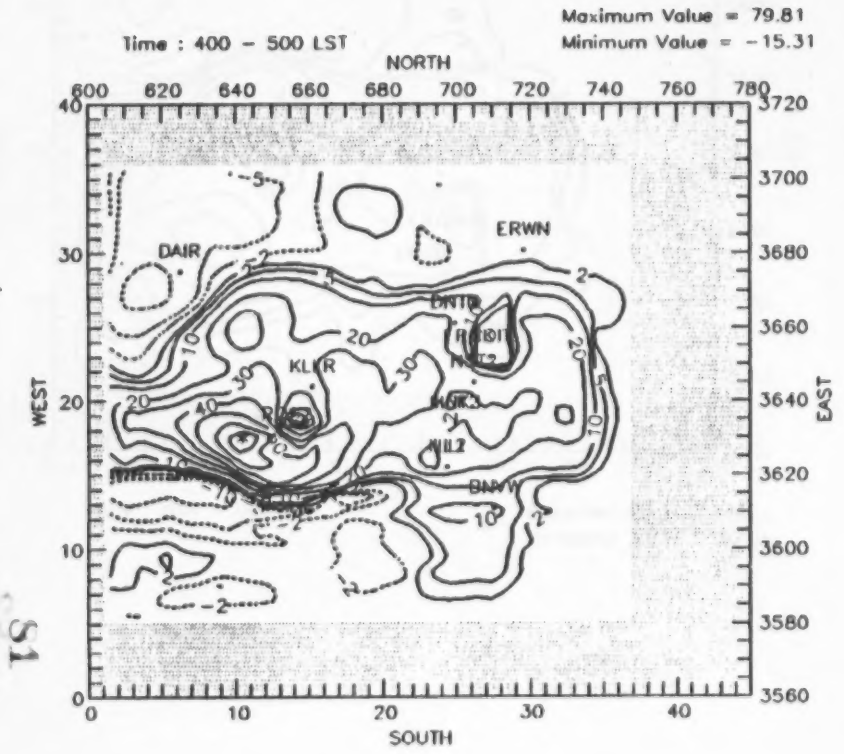


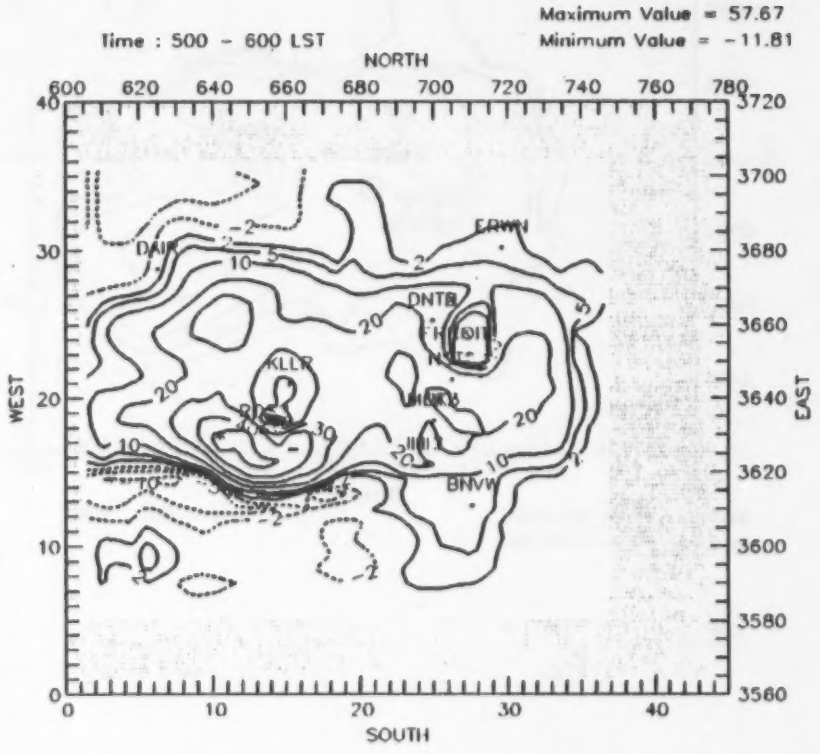
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.



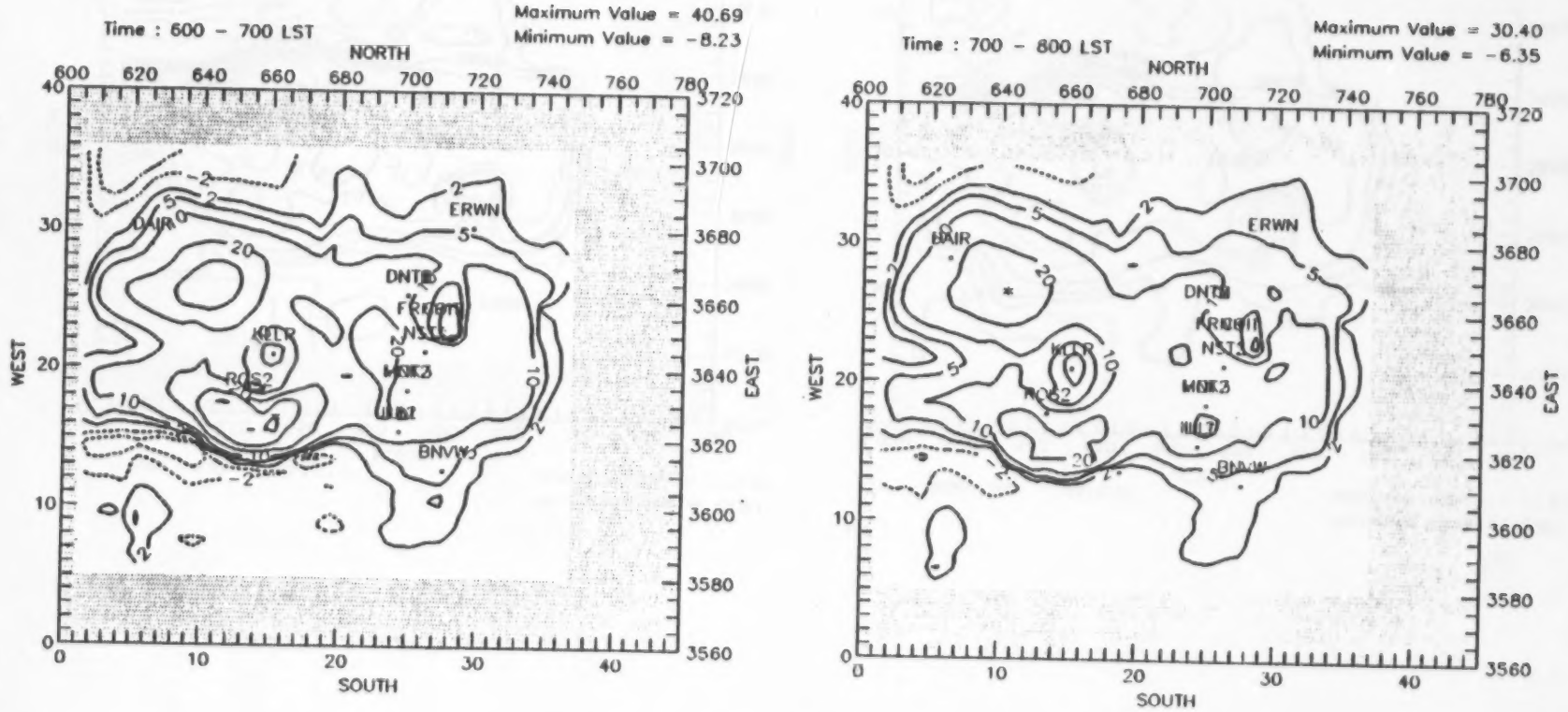


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.

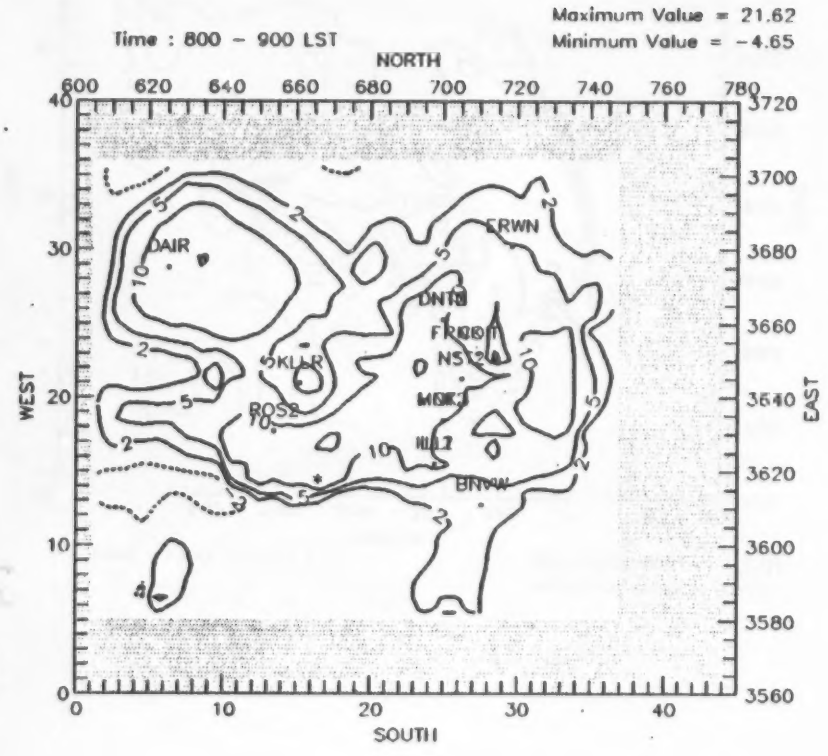


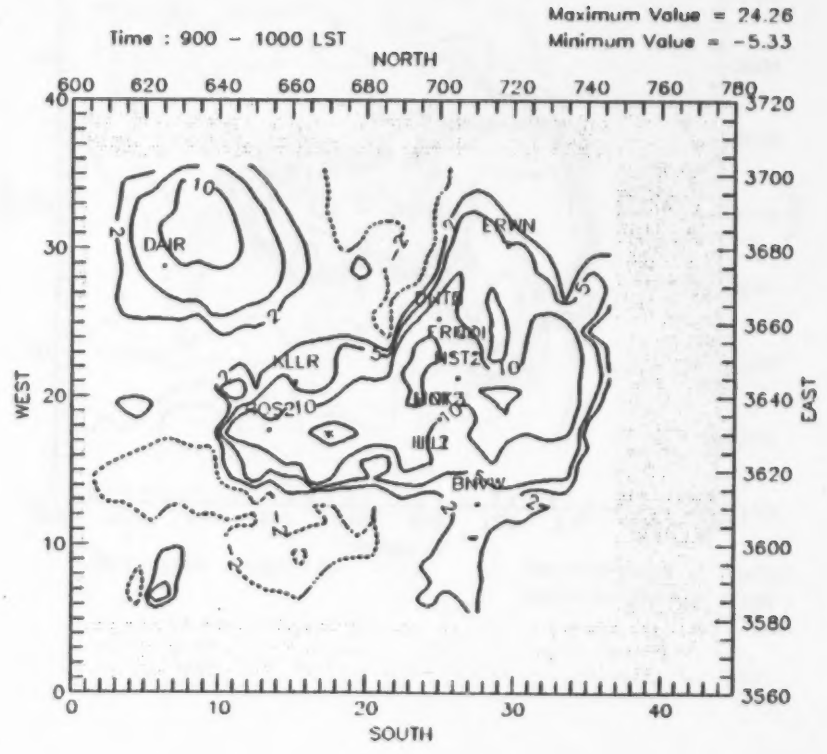


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.

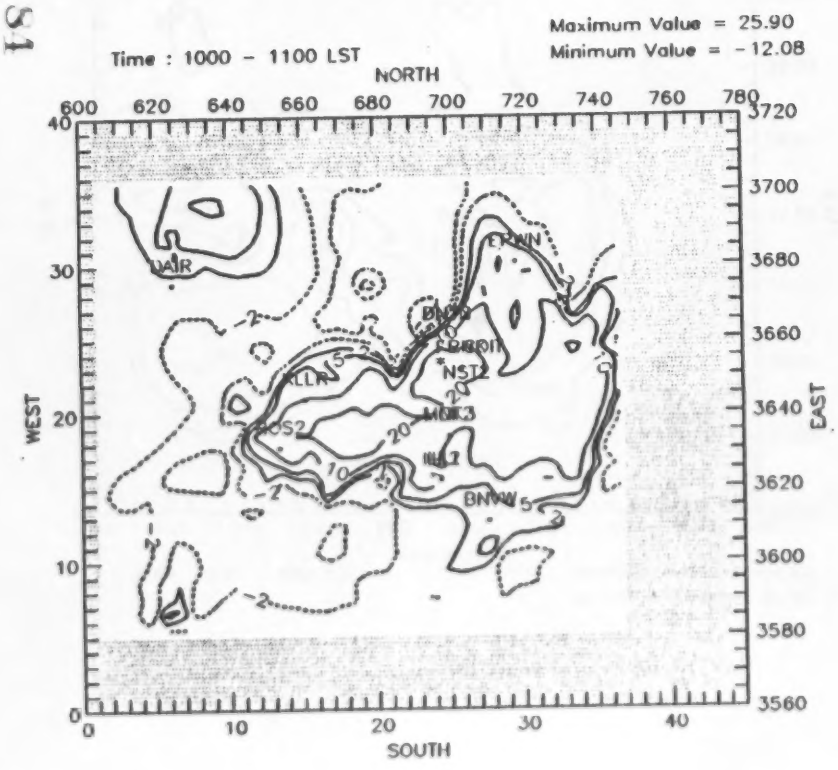


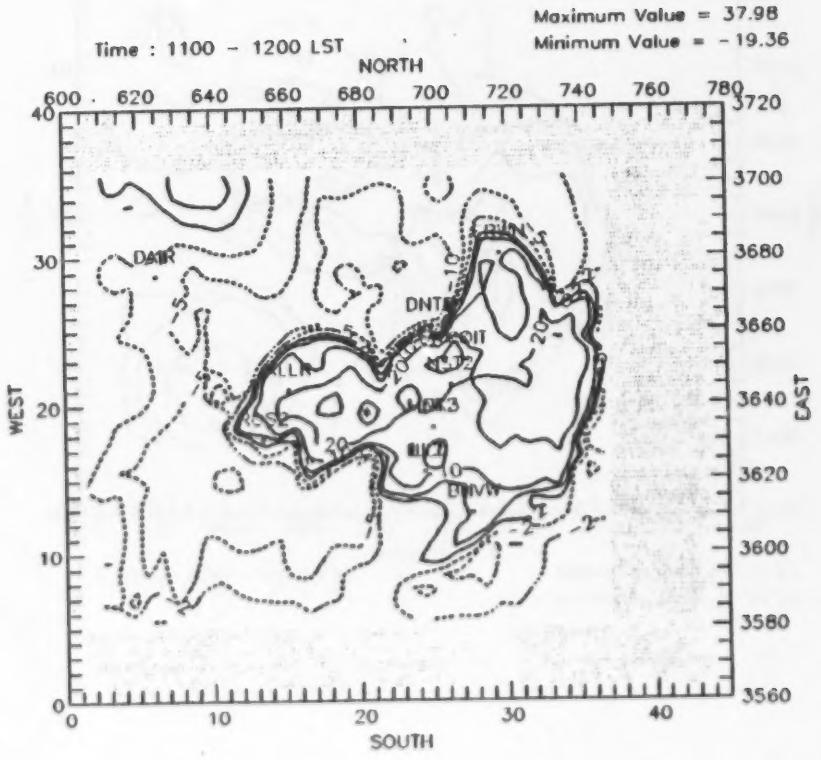
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.



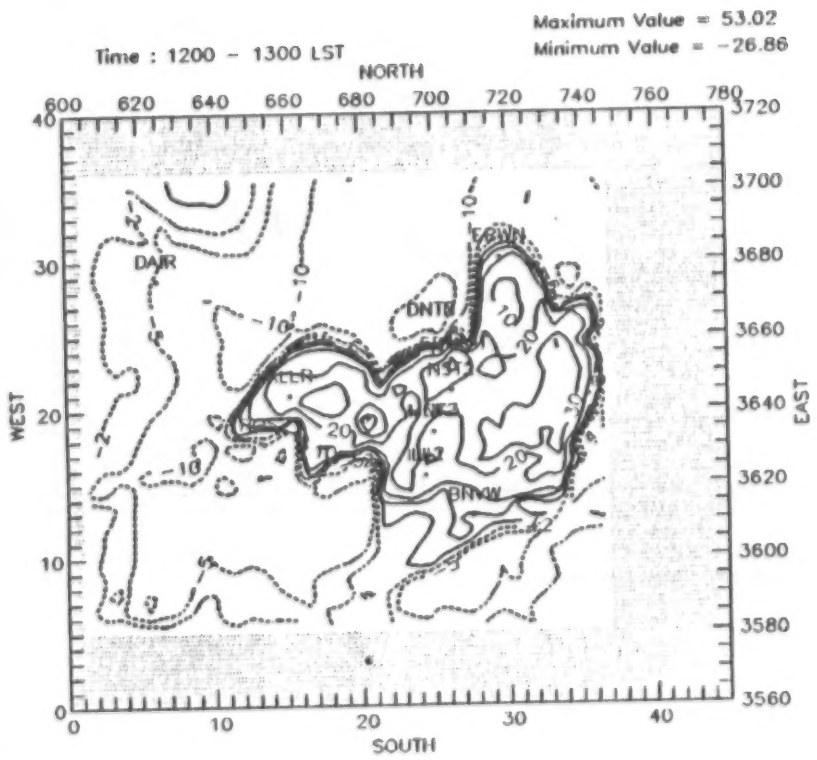


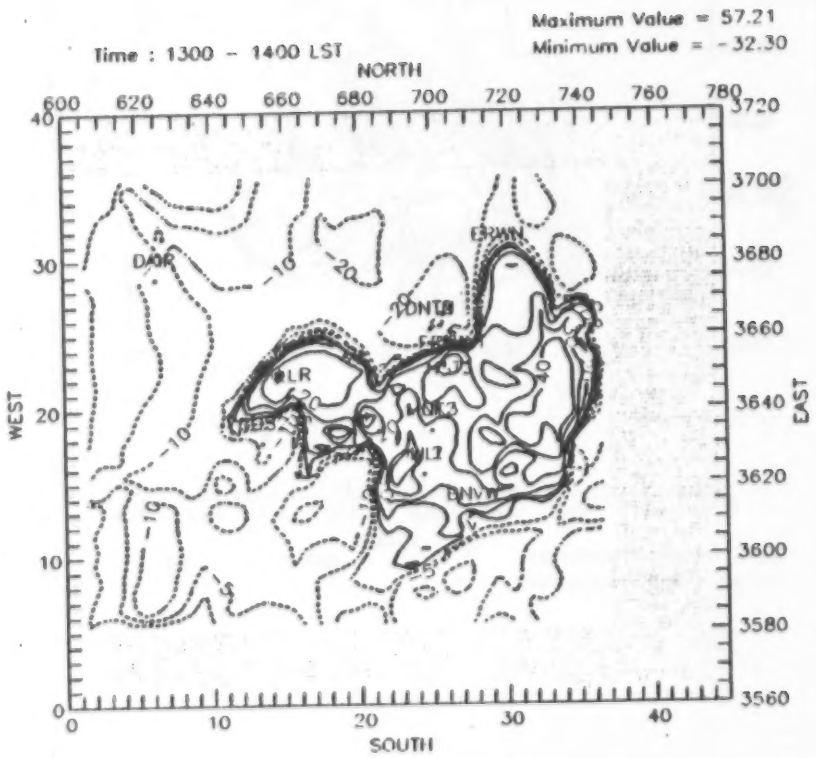
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.



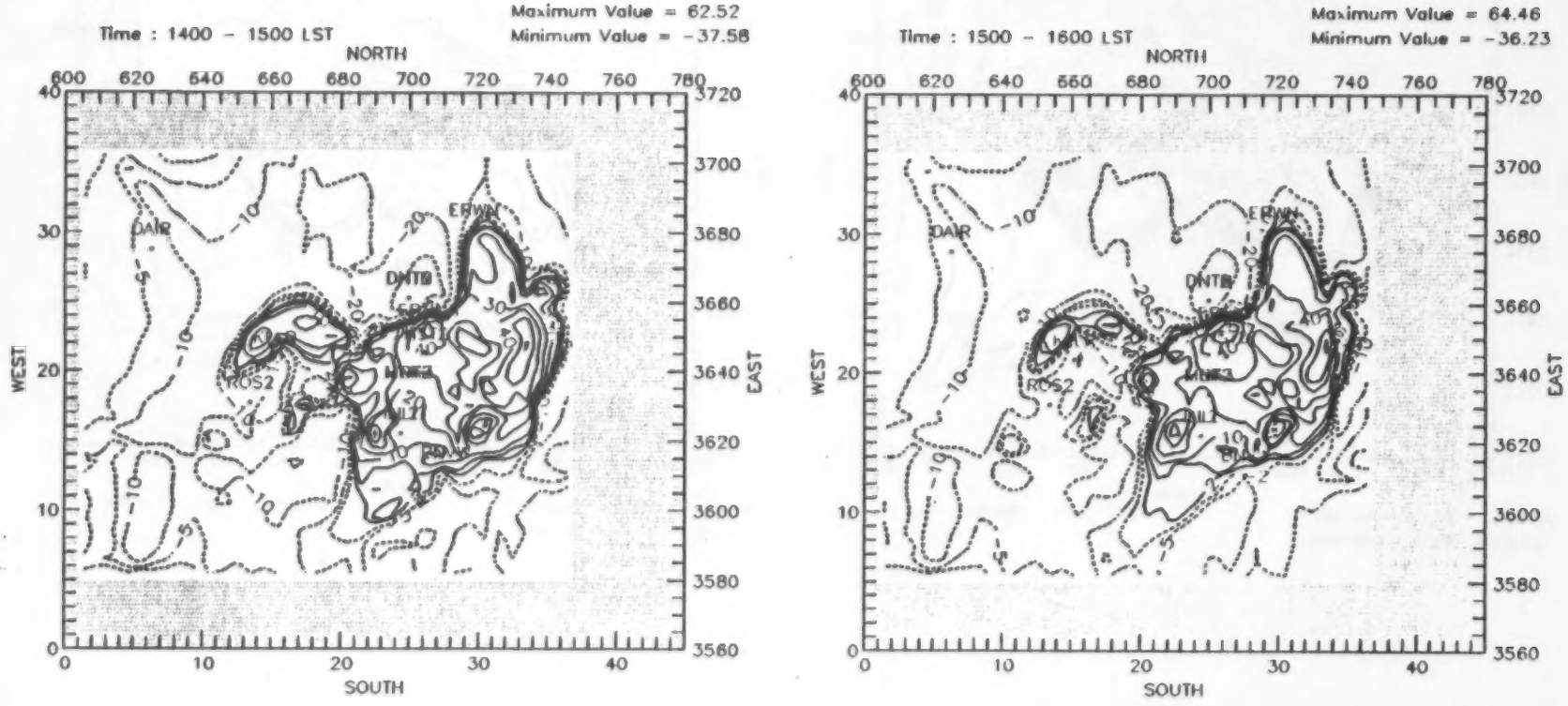


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.

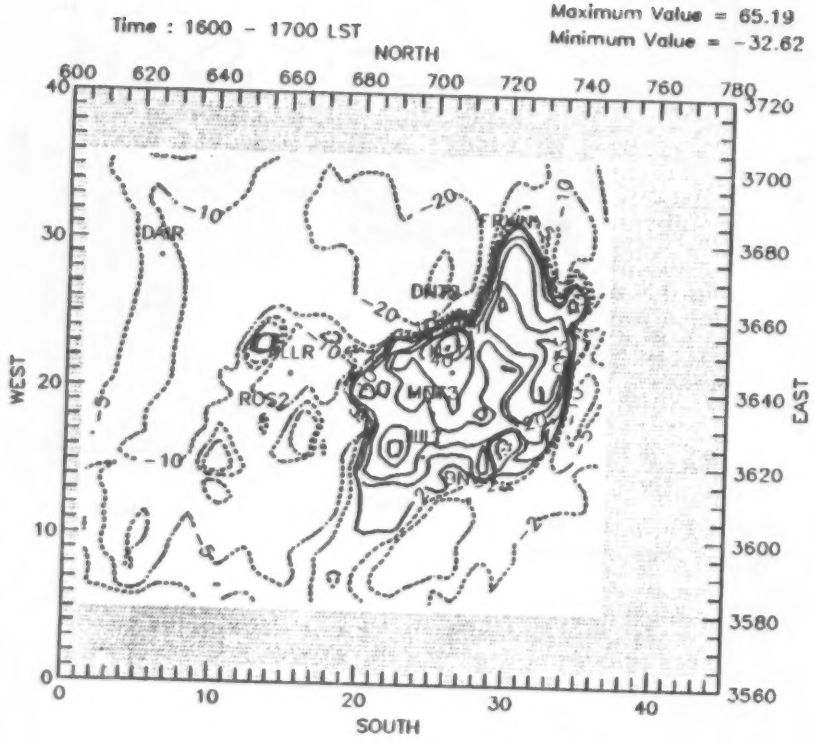


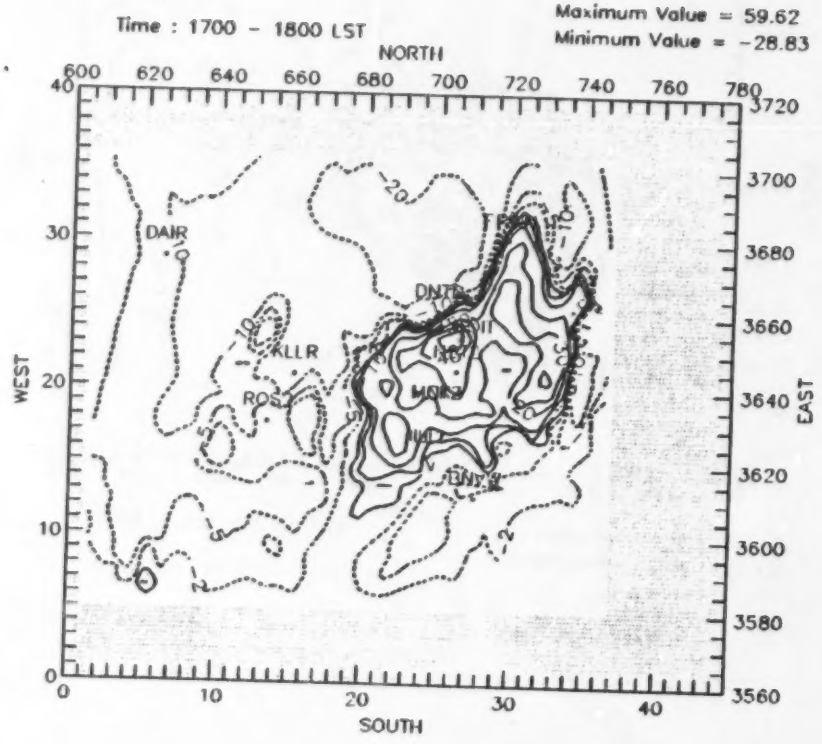


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.

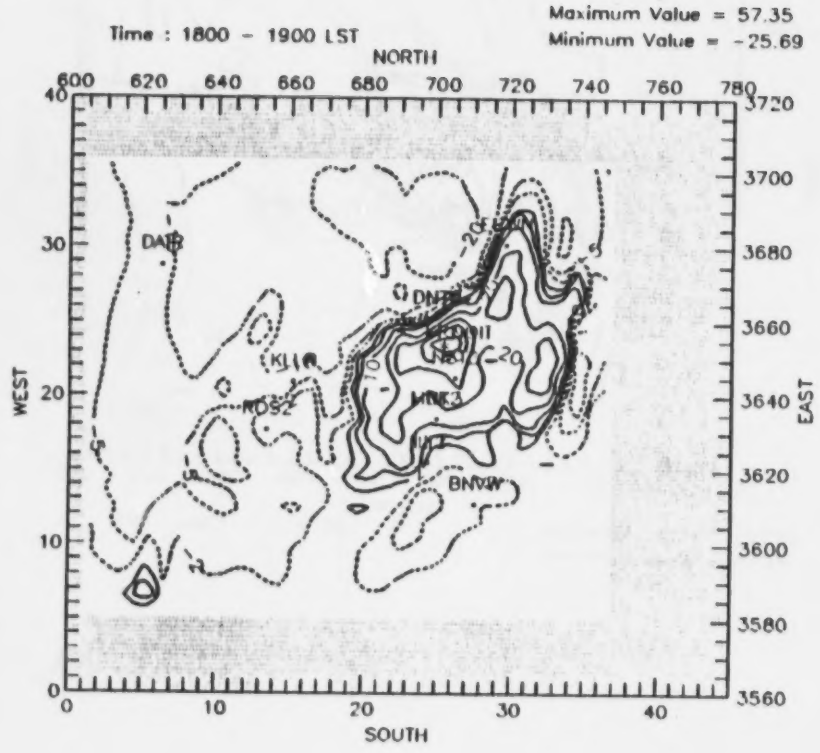


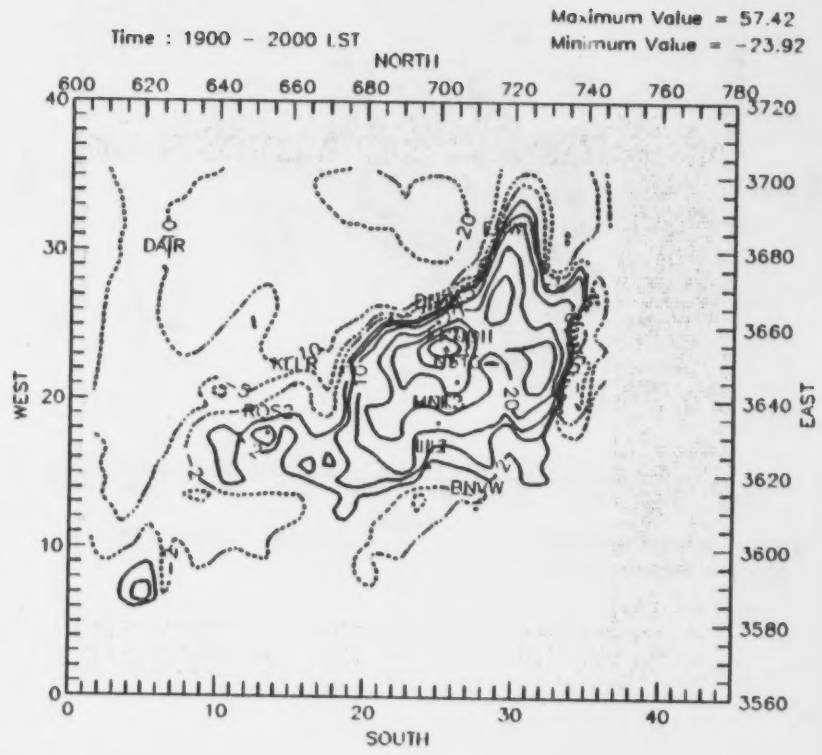
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.



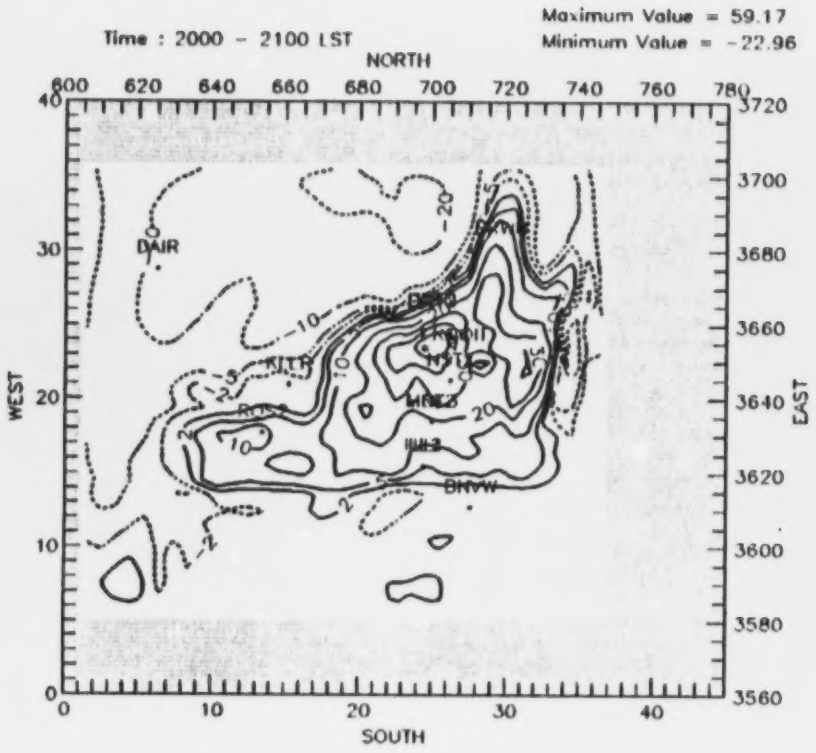


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.





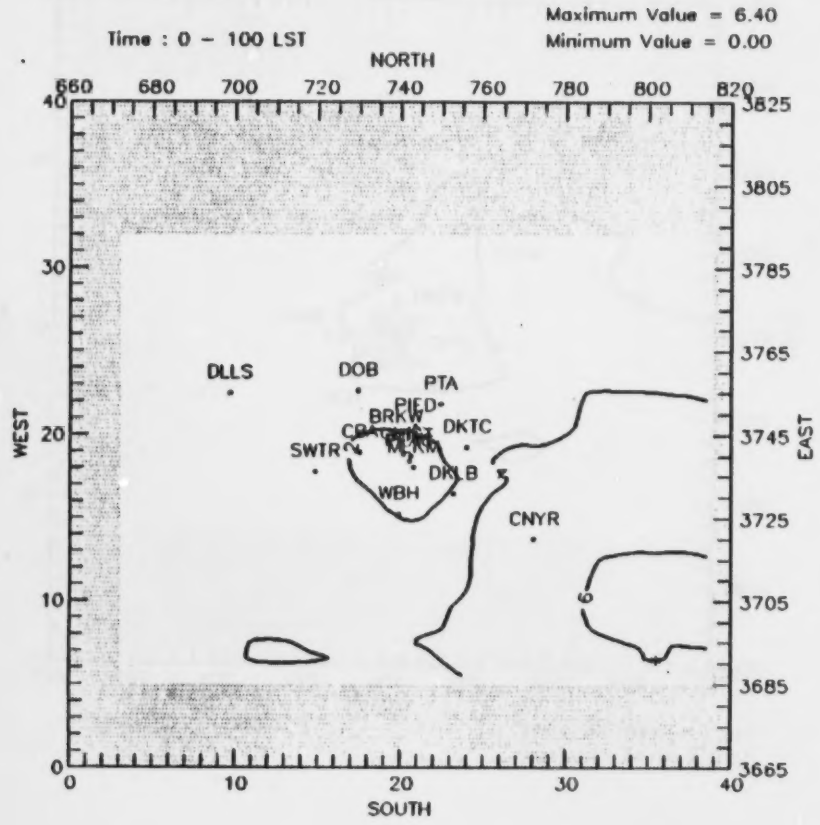
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.

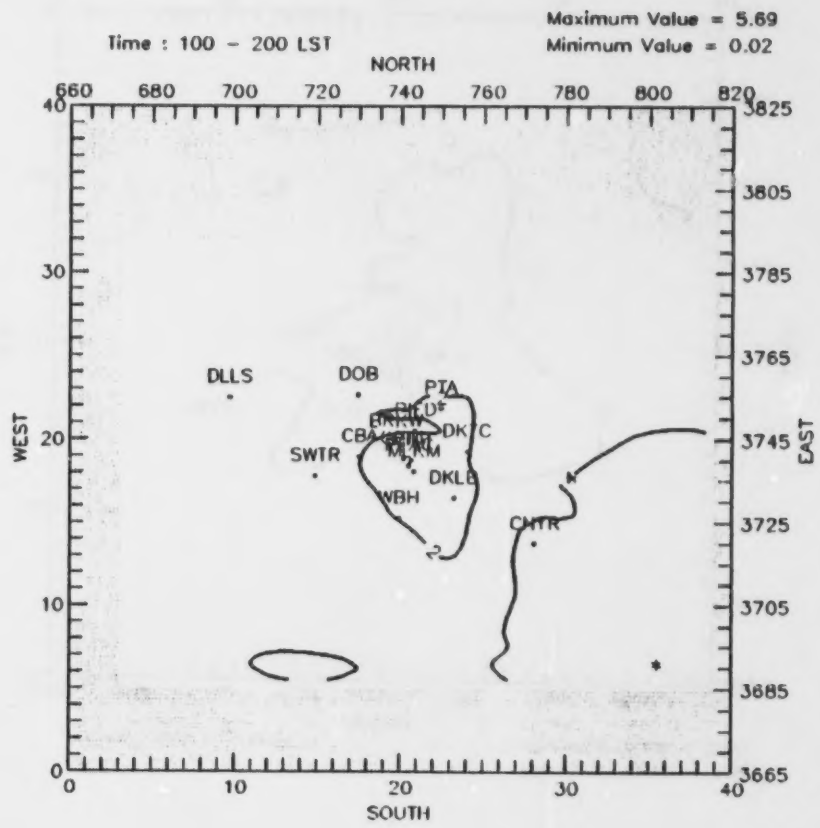


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 scenario #2 and 1995 base case on 31 August, 1985.

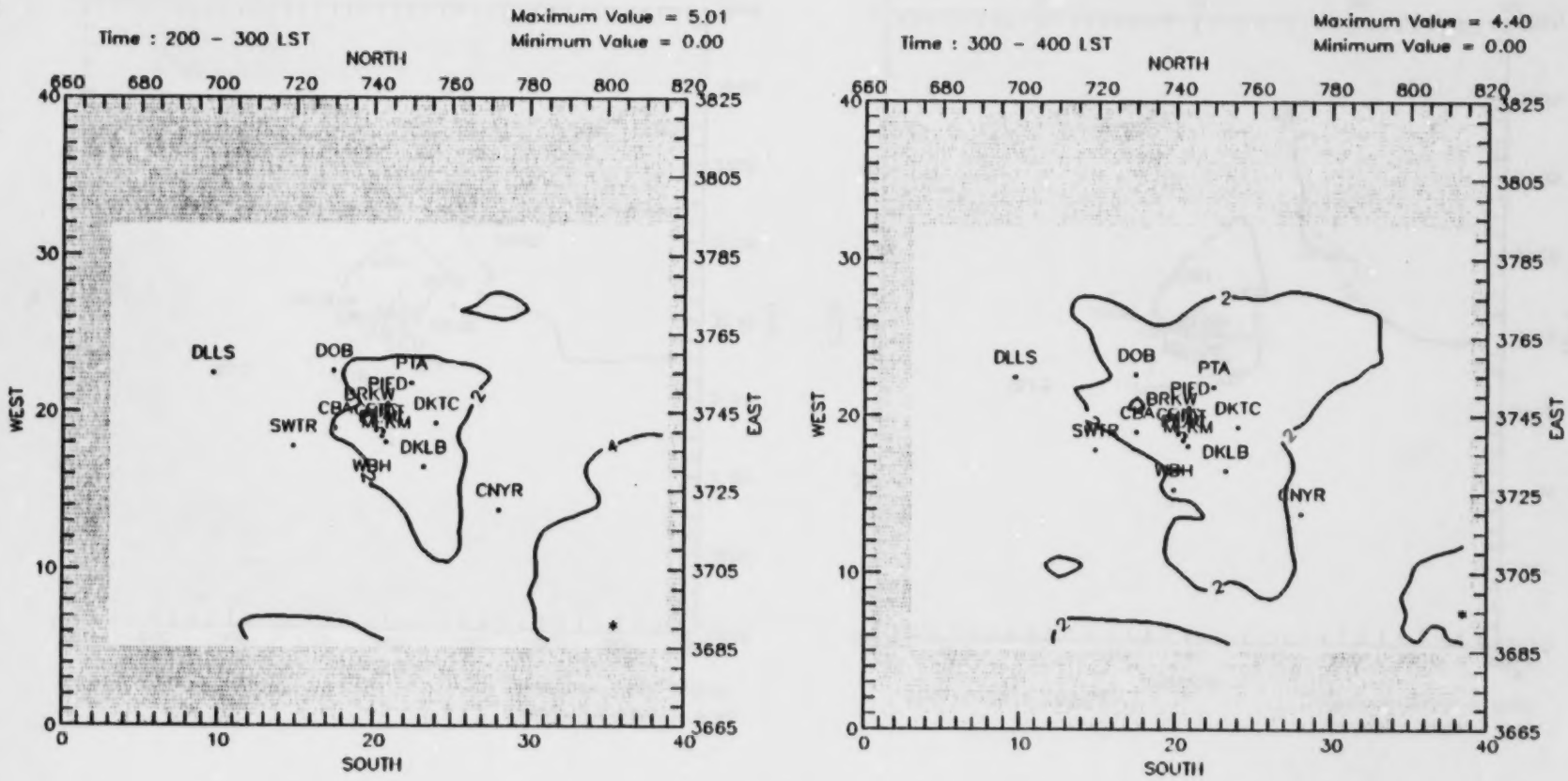
Appendix G

PREDICTED HOURLY OZONE CONCENTRATIONS (ppb) FOR ATLANTA 1995 BASE CASE EMISSION SCENARIO

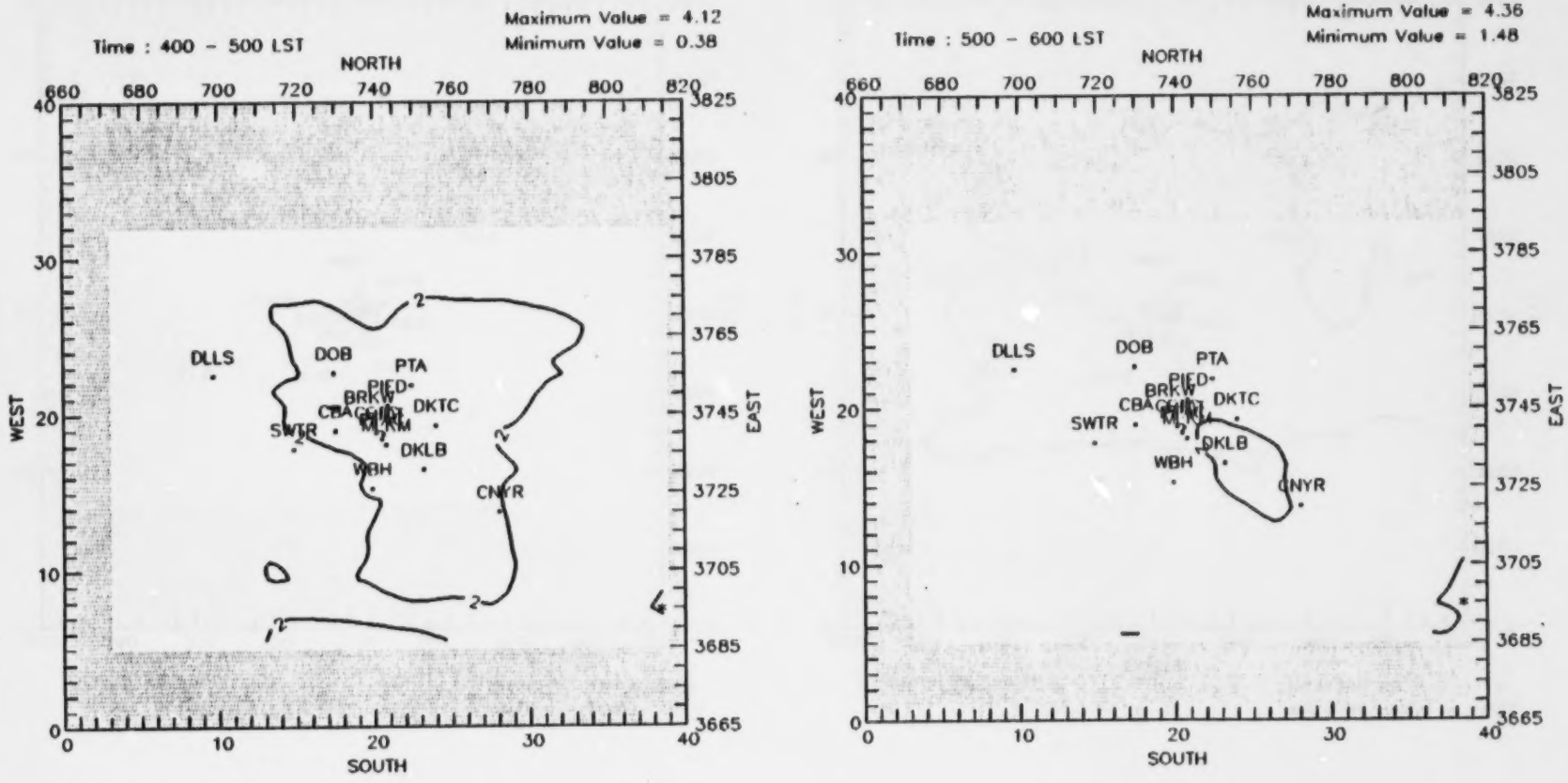




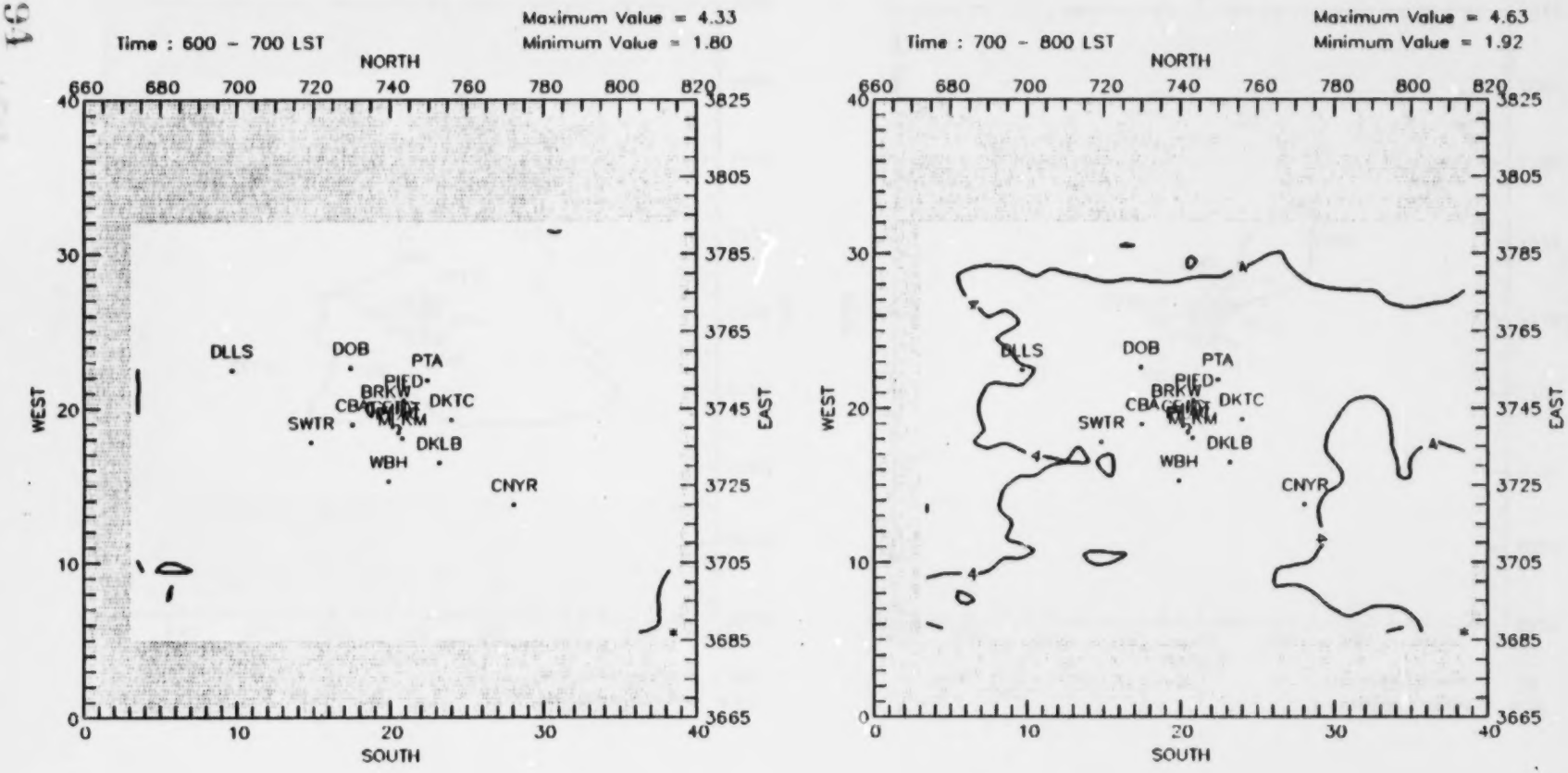
Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984



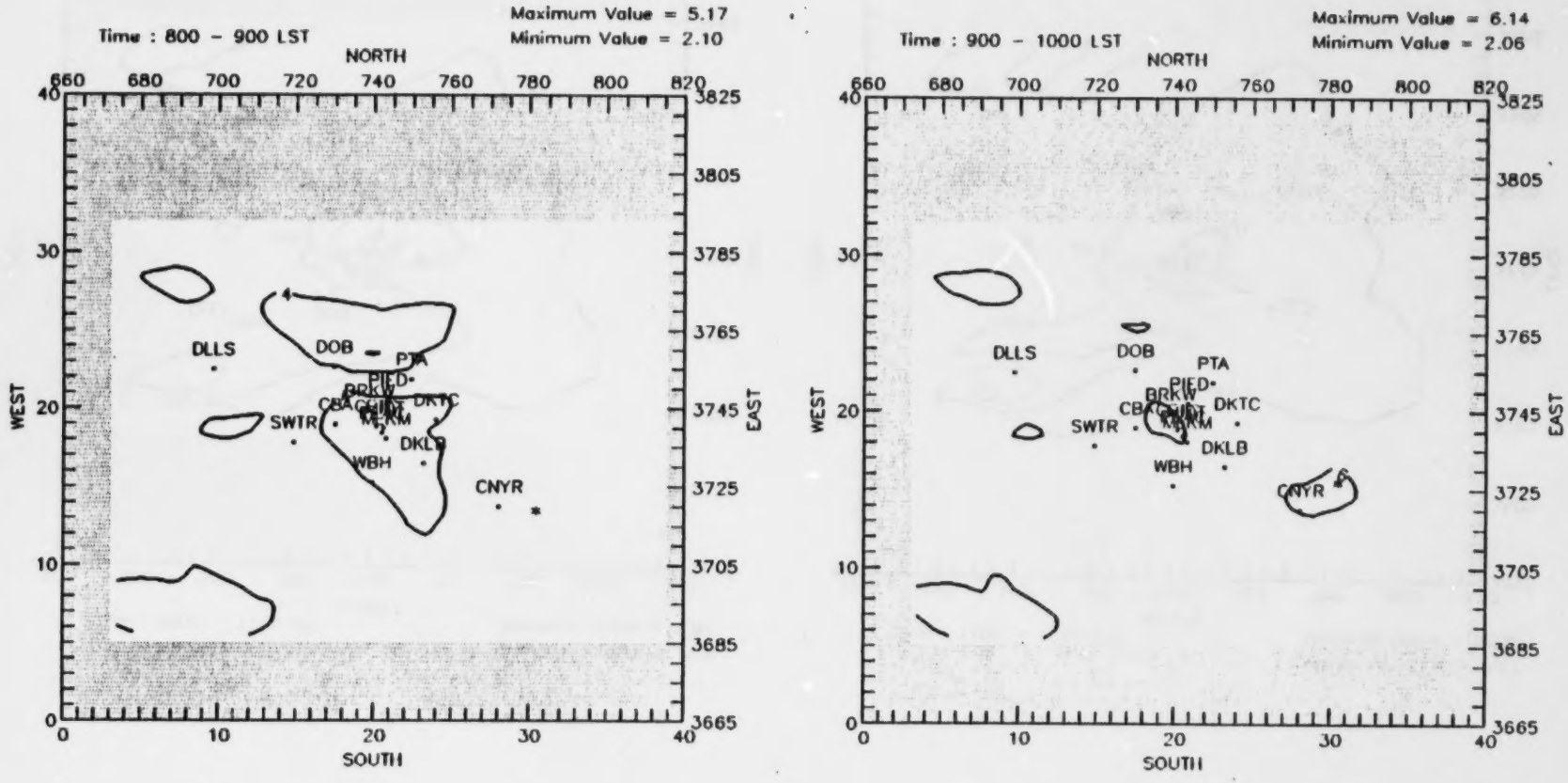
Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984



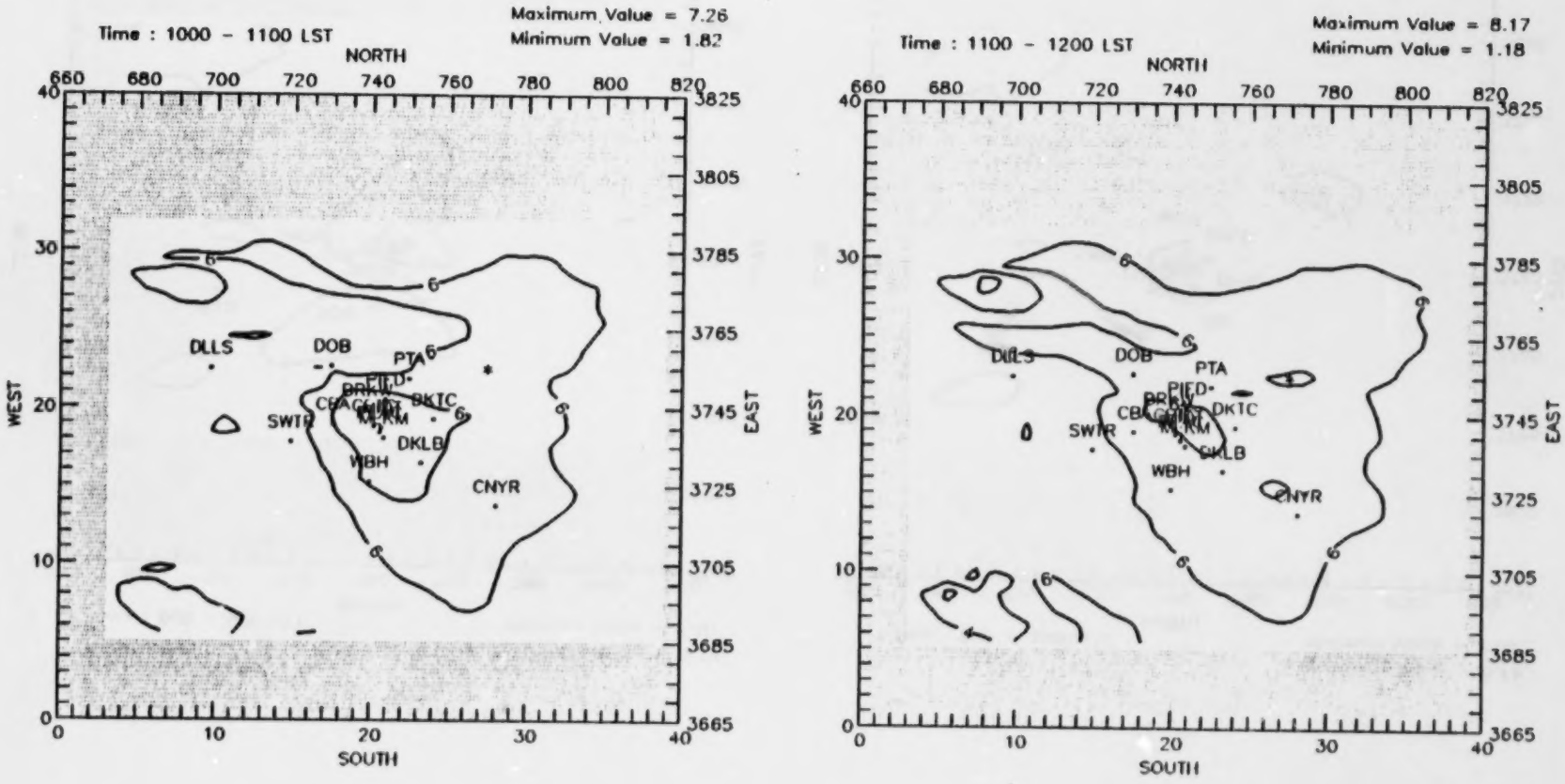
Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984



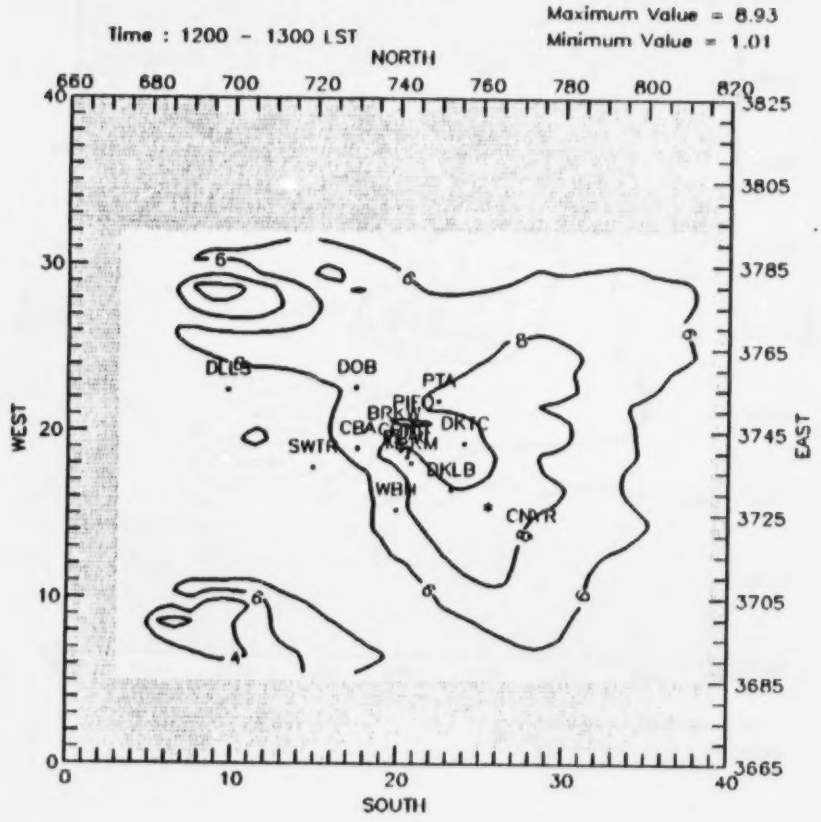
Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984

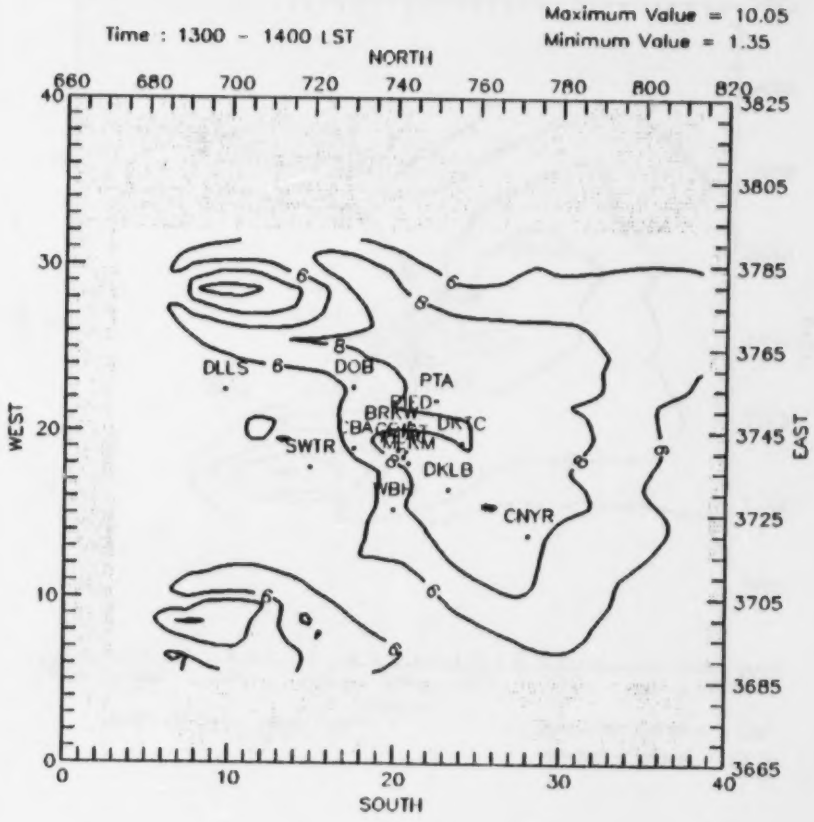


Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984

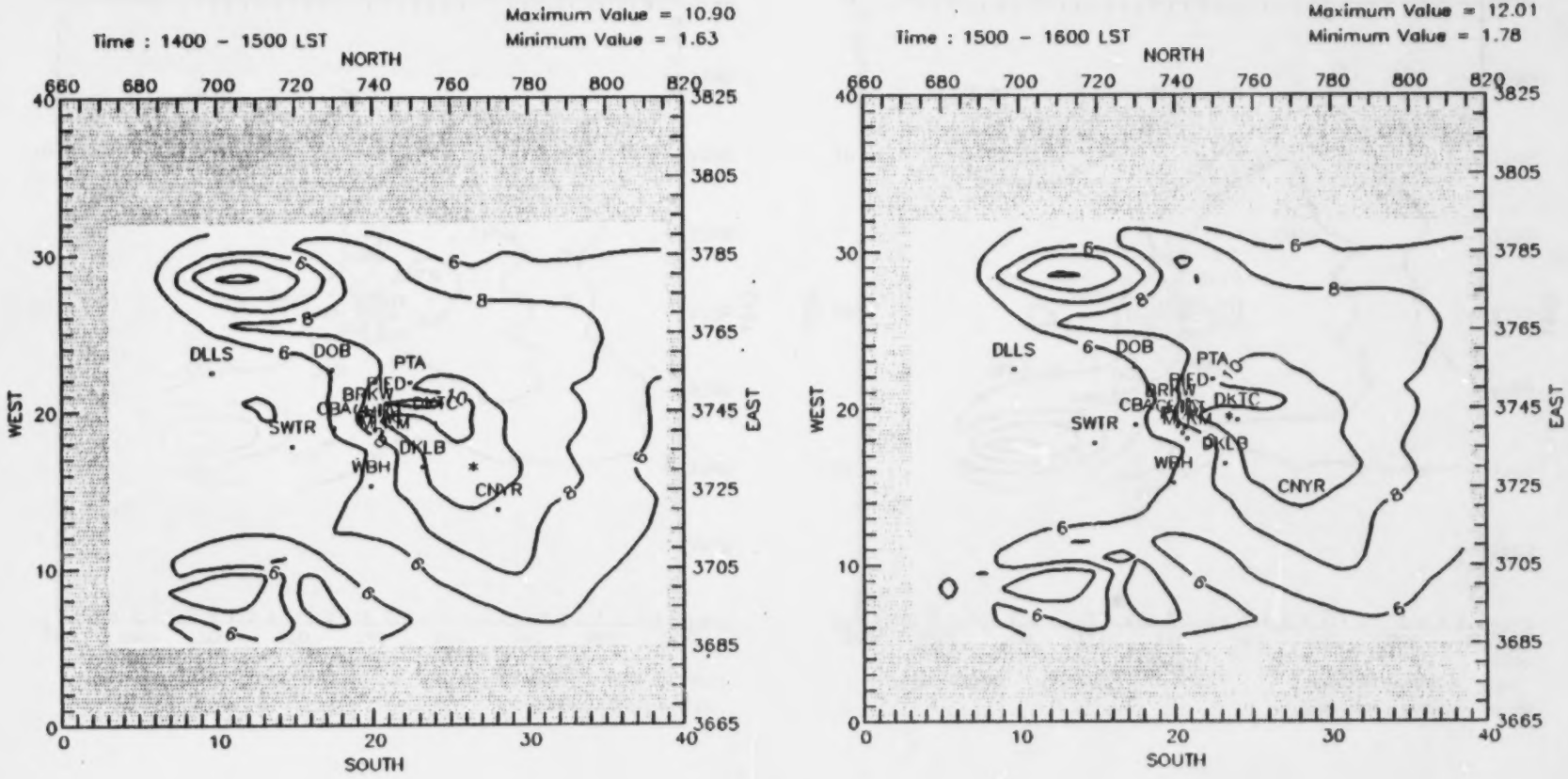


Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984

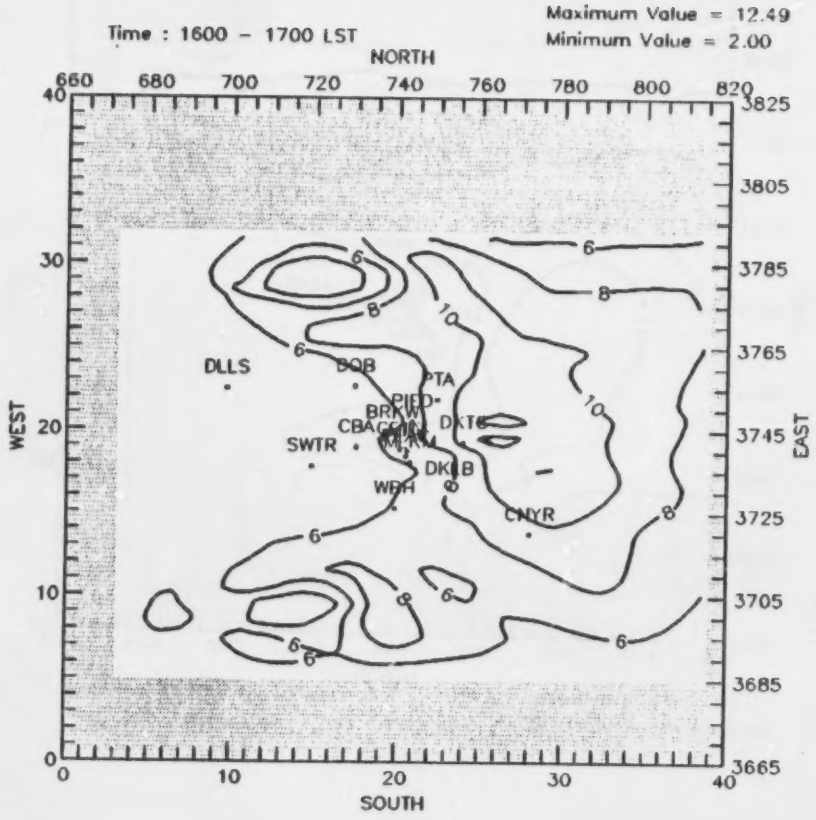


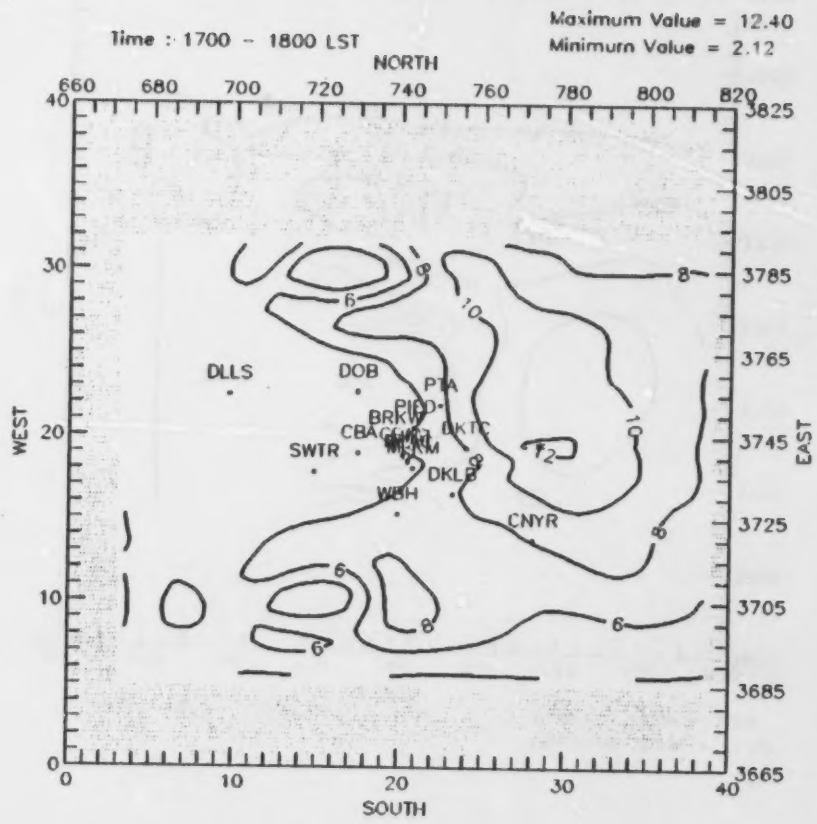


Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984

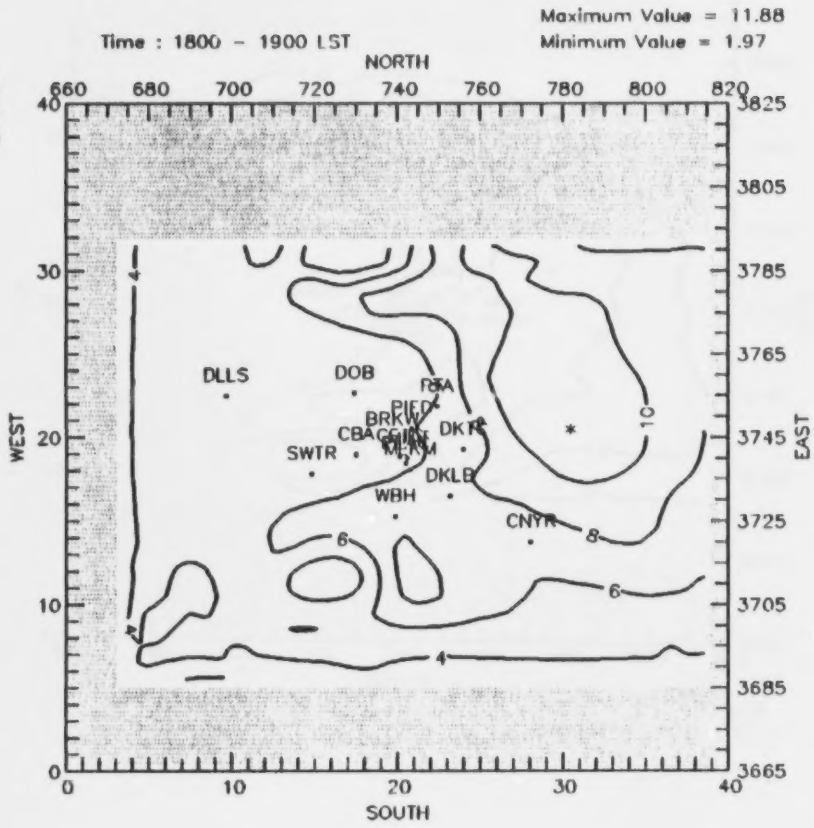


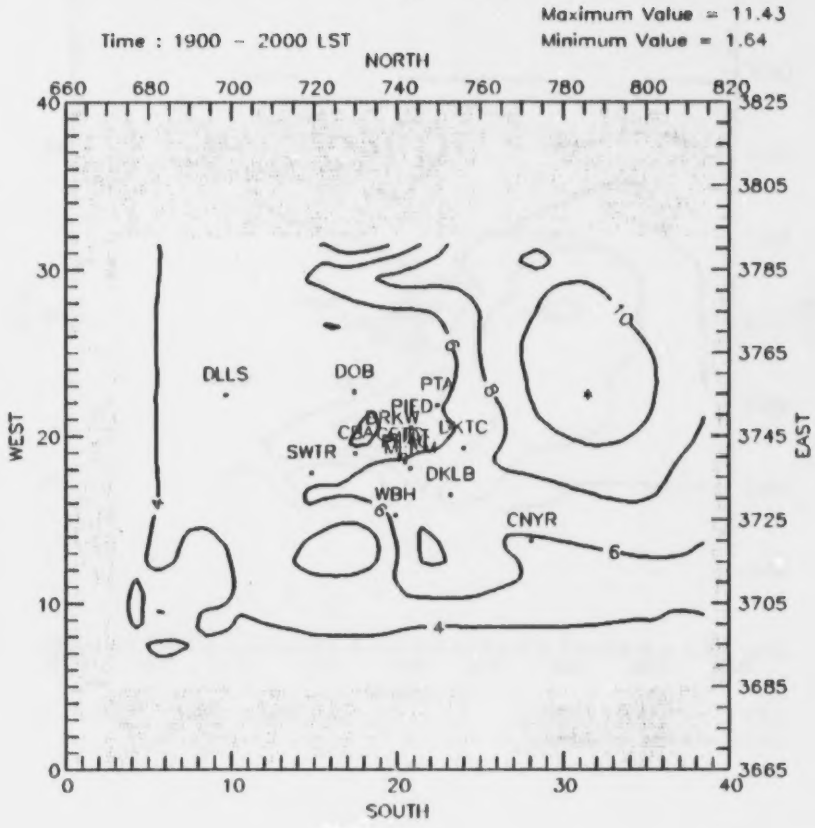
Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984





Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984

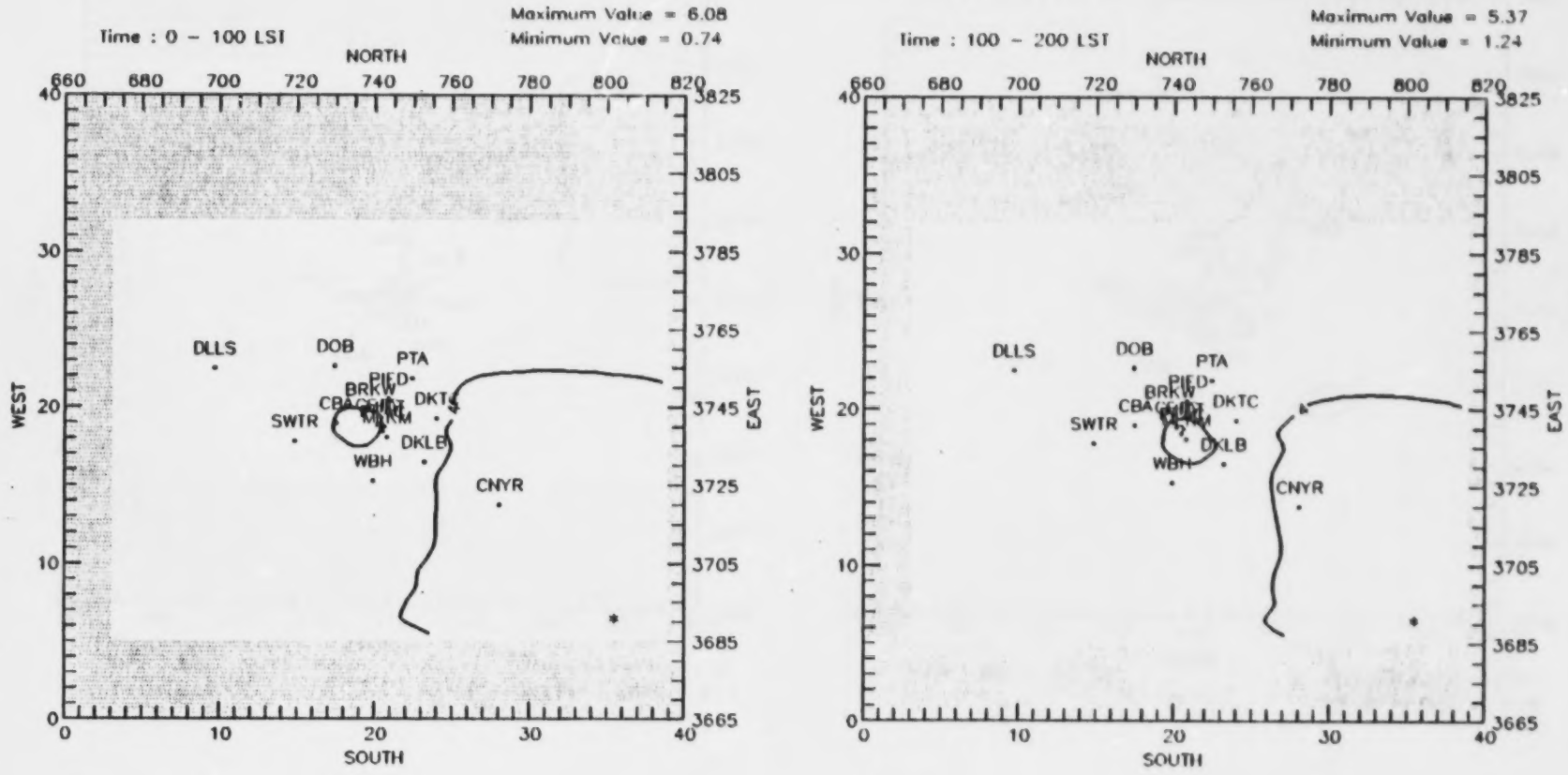




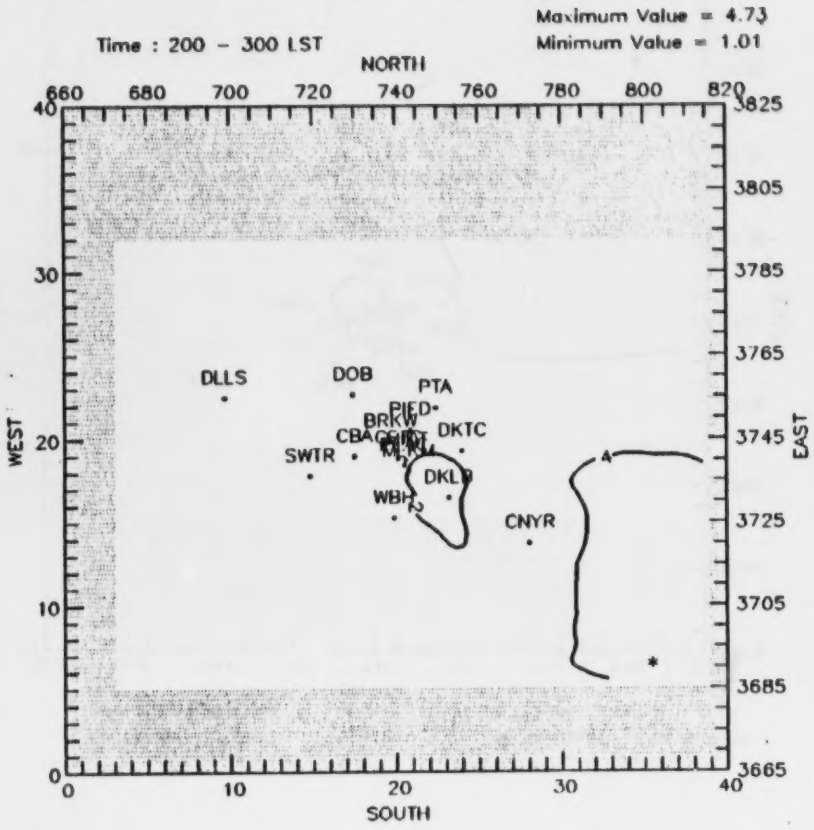
Predicted ozone concentrations (pphm) for Atlanta 1995 base case on 4 June, 1984

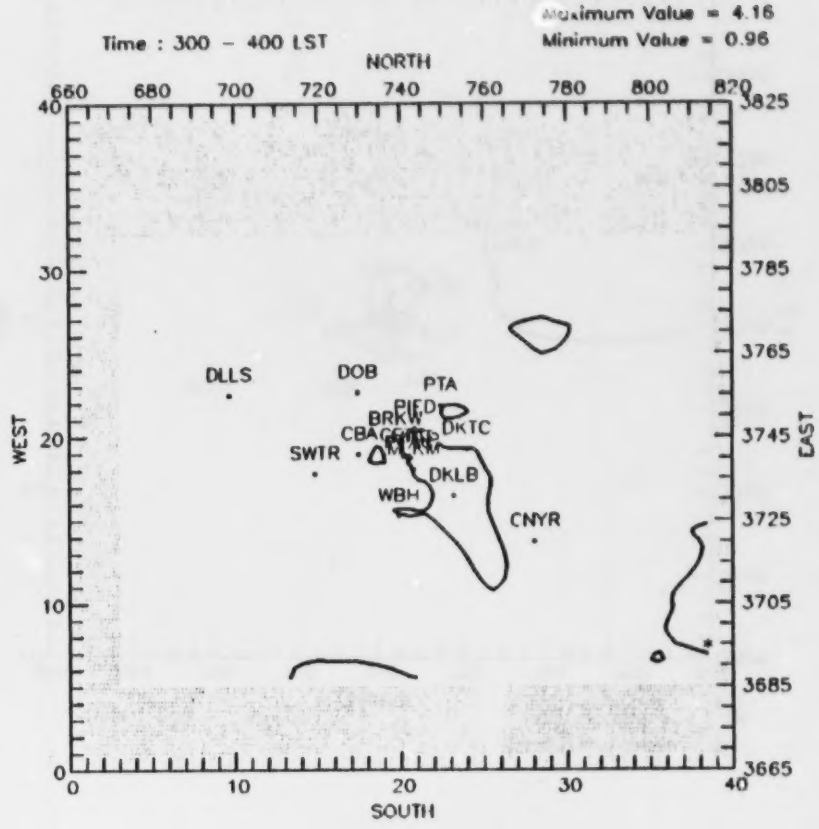
Appendix H

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR ATLANTA 1995 EMISSION SCENARIO #1 (46 PERCENT REDUCTION IN VOC EMISSIONS AND 50 PERCENT REDUCTION IN NO_x EMISSIONS)

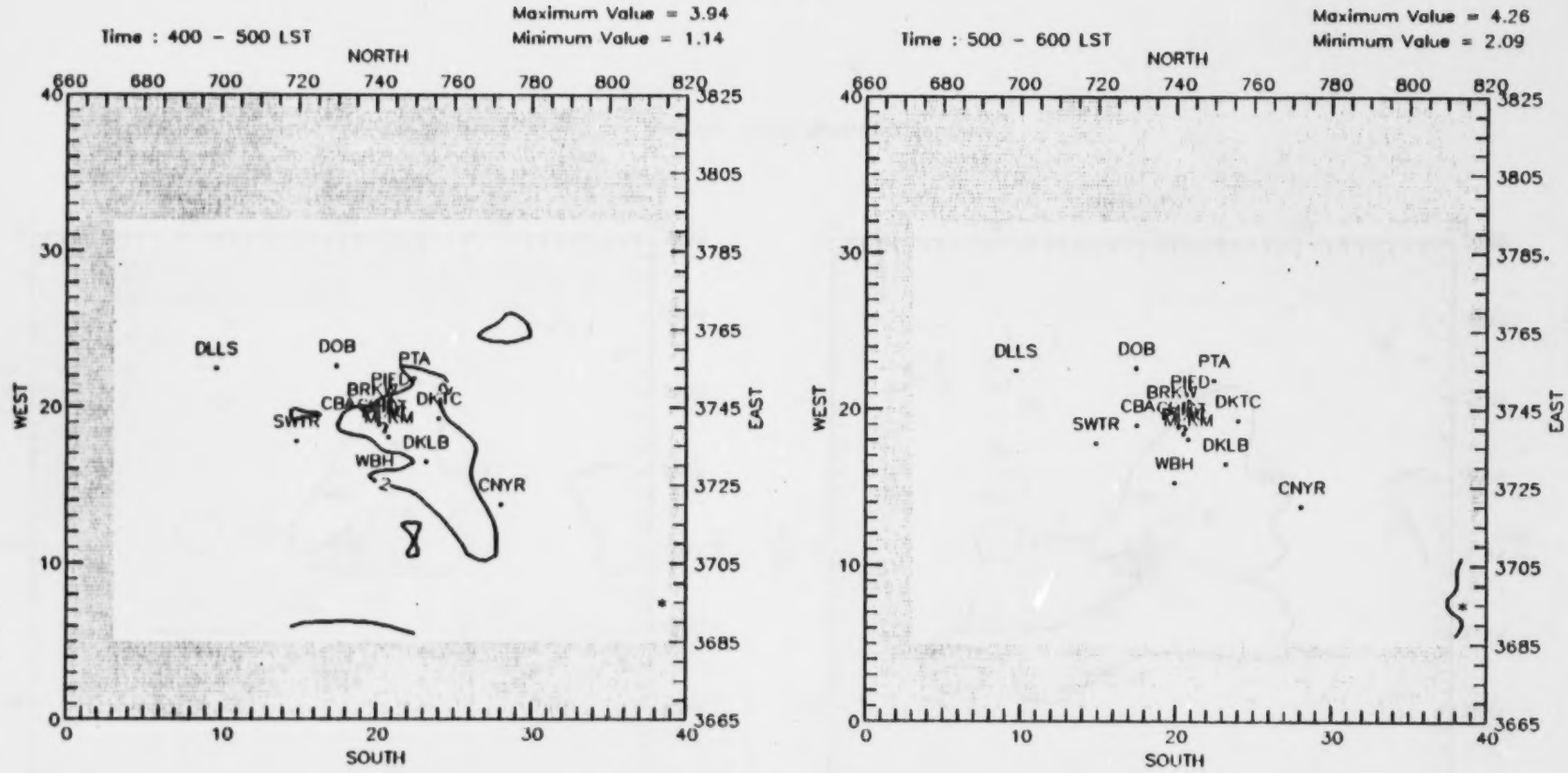


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 1 on 4 June, 1984

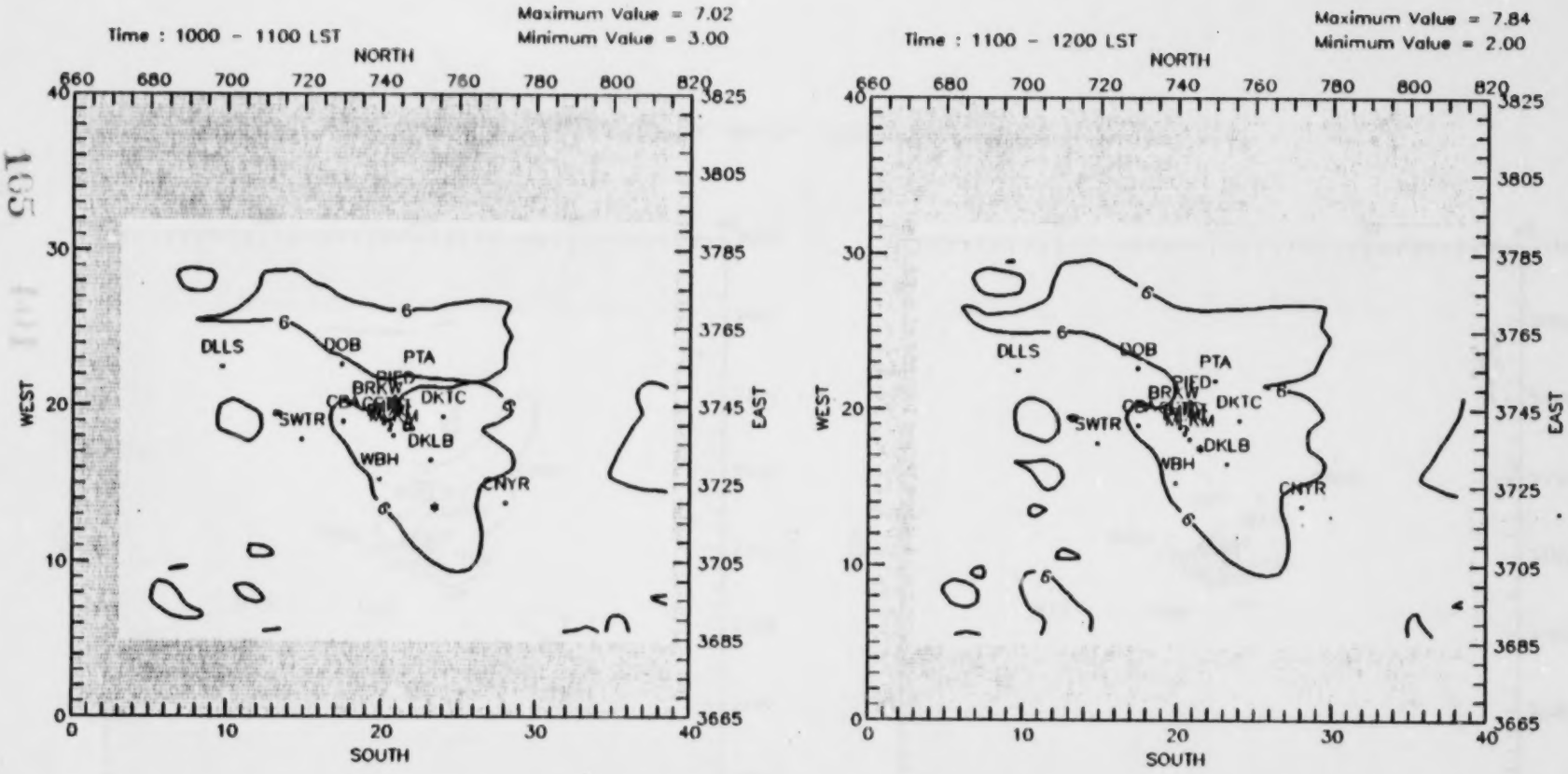




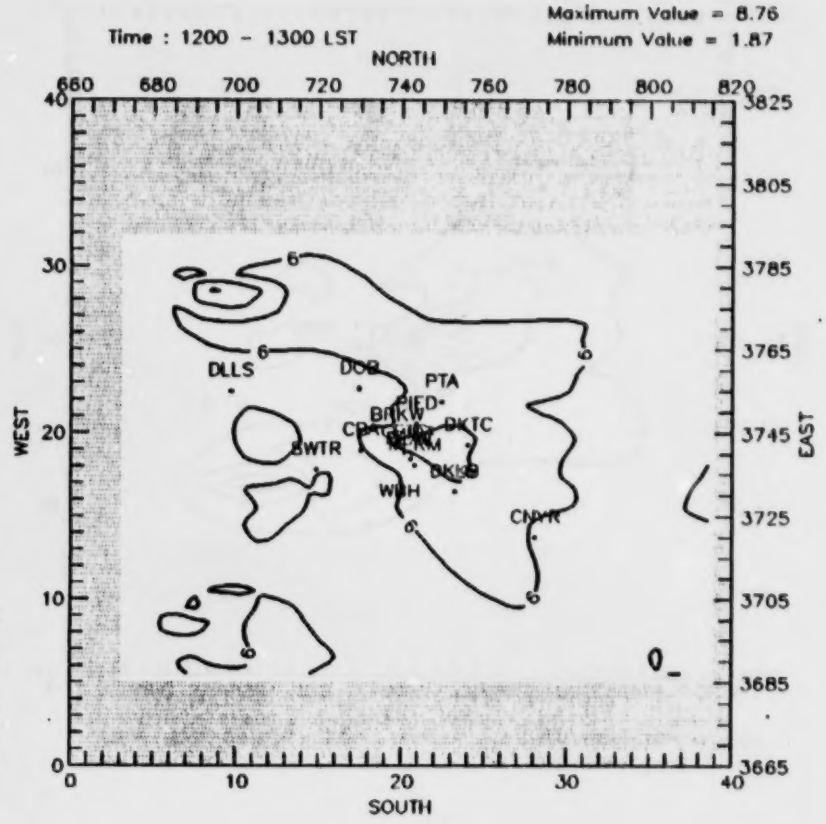
Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 1 on 4 June, 1984

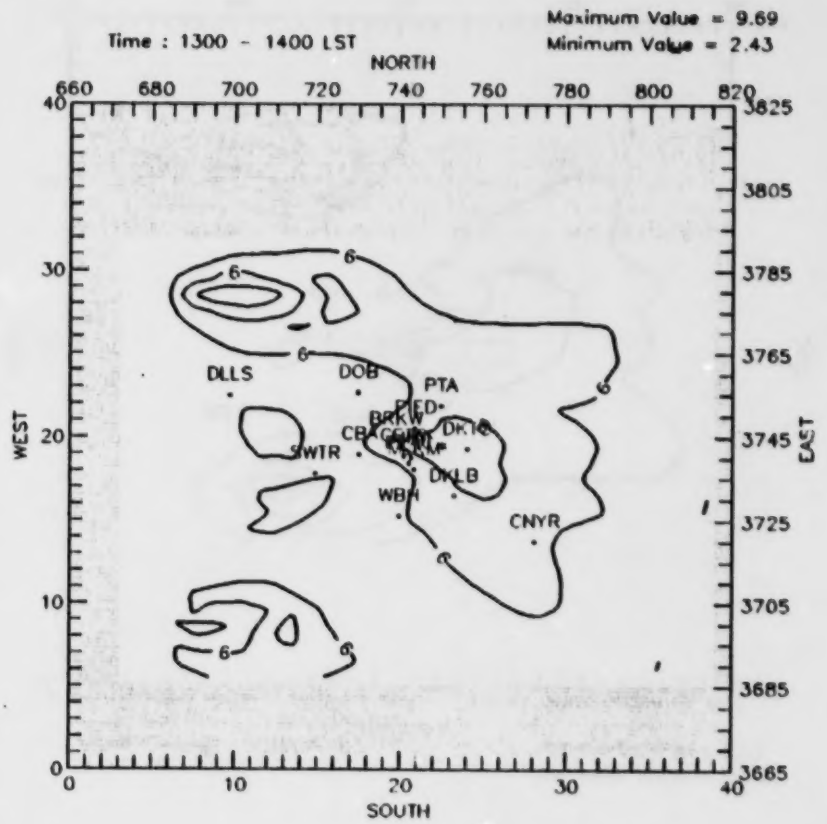


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 1 on 4 June, 1984

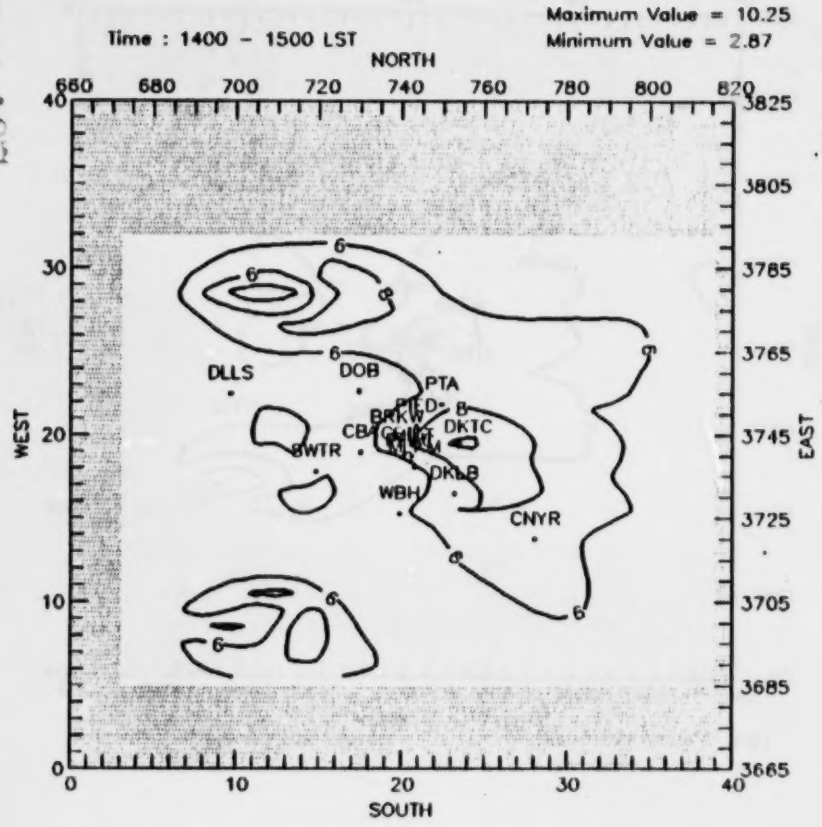


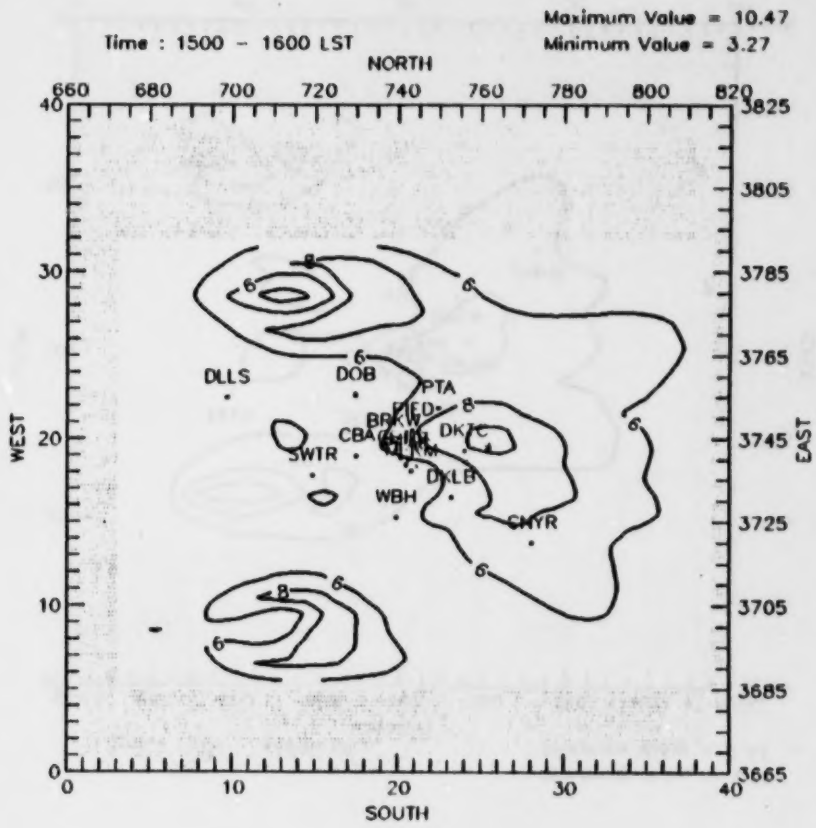
Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 1 on 4 June, 1984



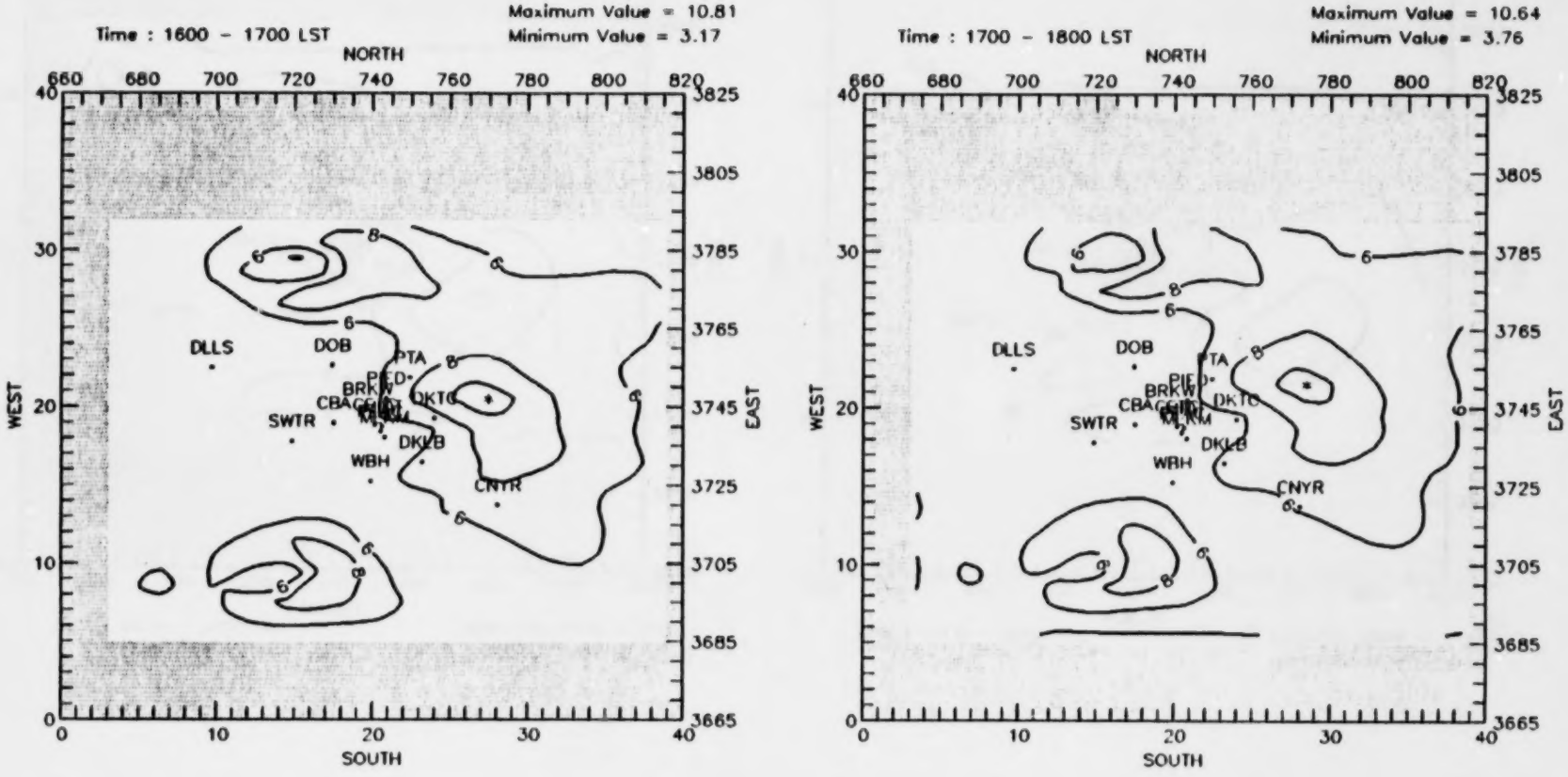


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 1 on 4 June, 1984

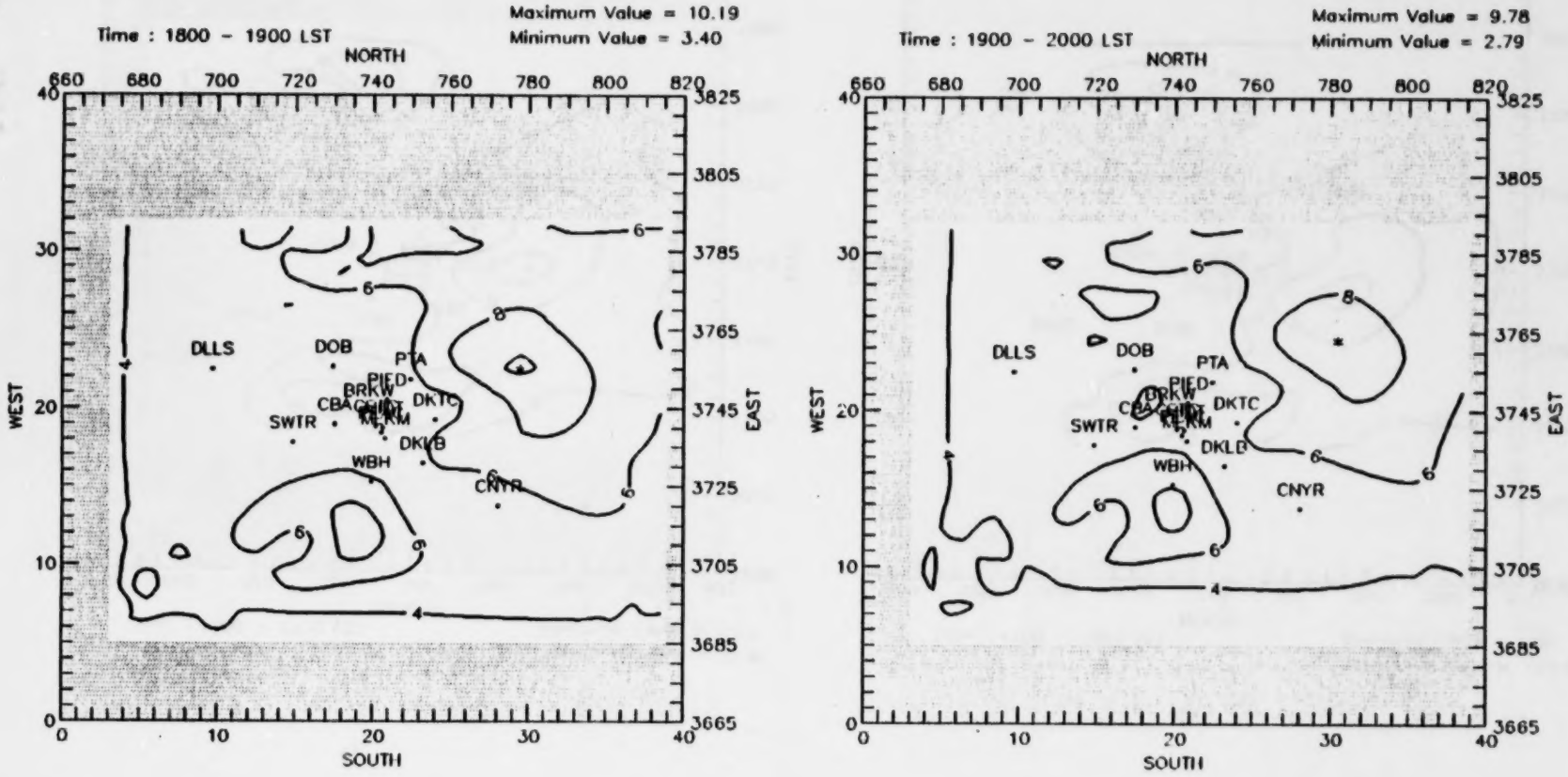




Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 1 on 4 June, 1984



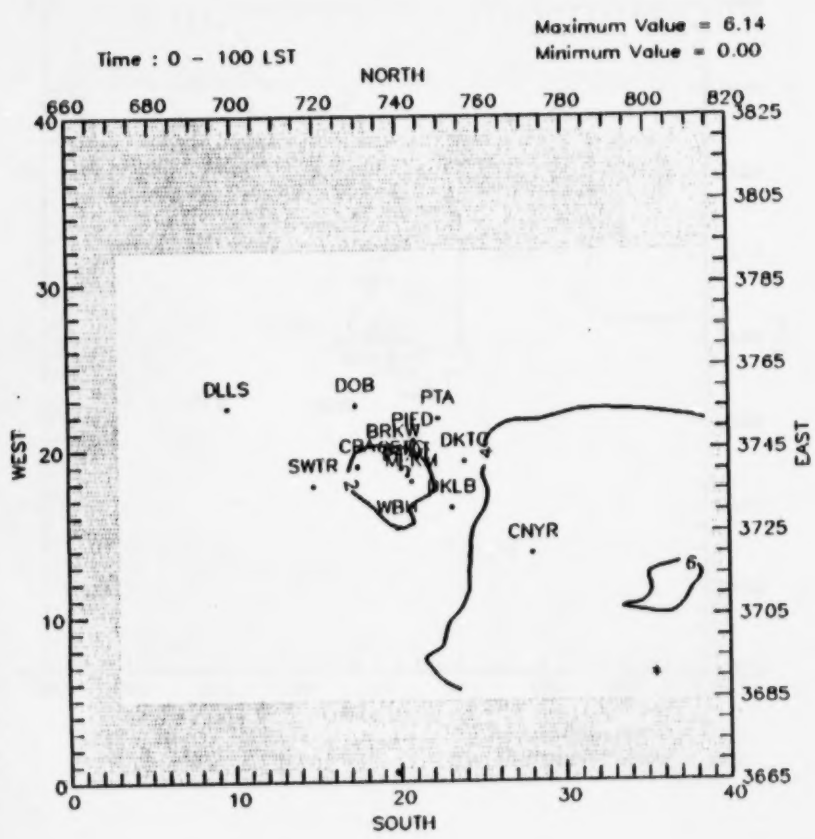
Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 1 on 4 June, 1984

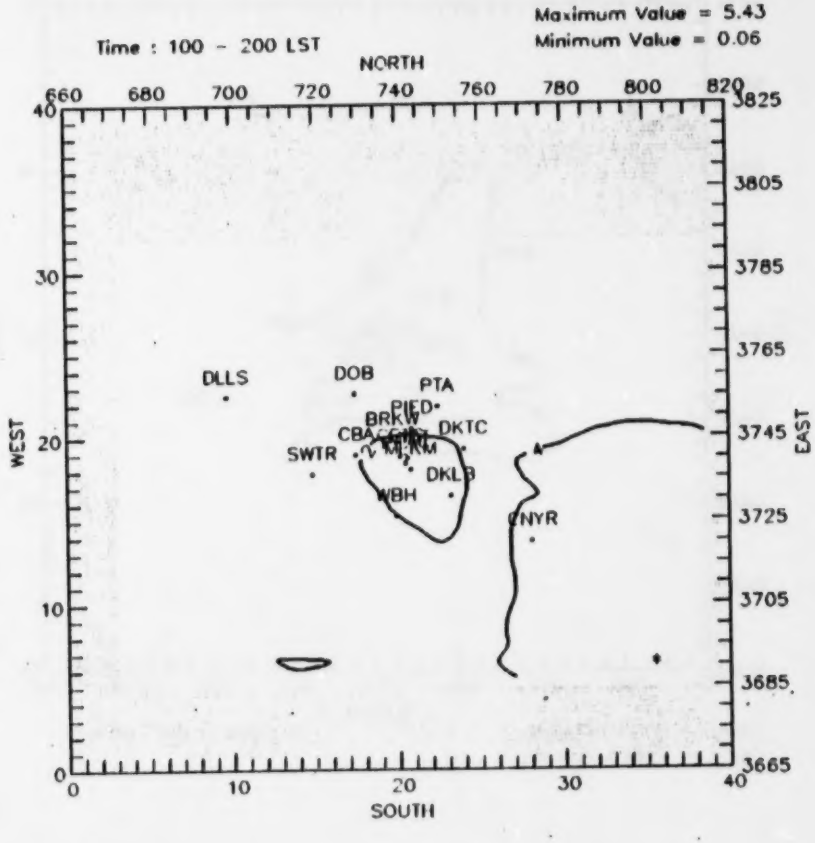


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 1 on 4 June, 1984

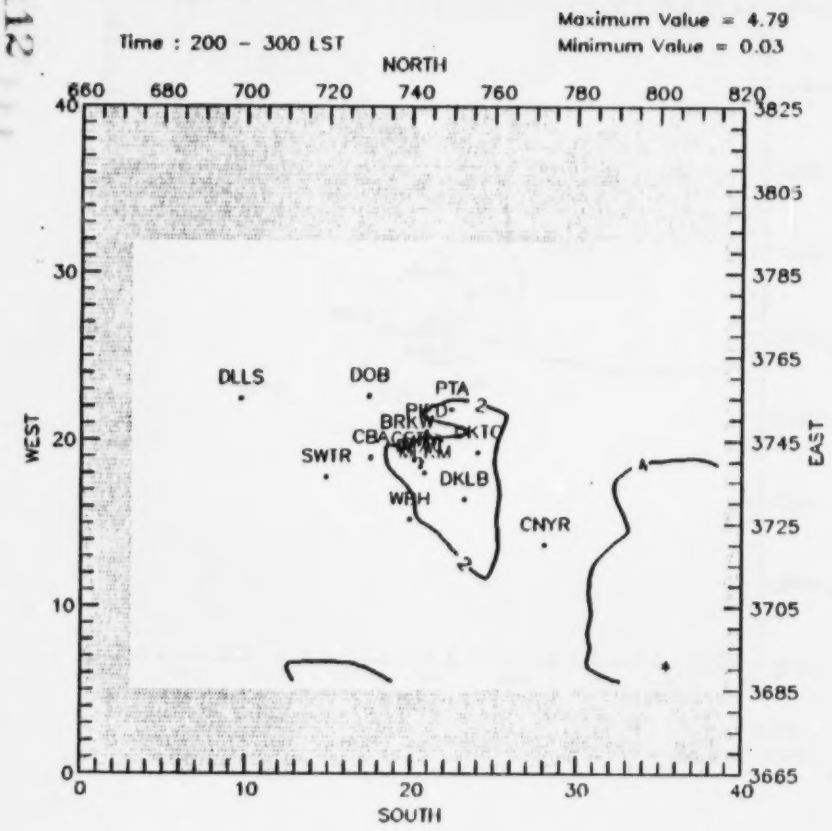
Appendix I

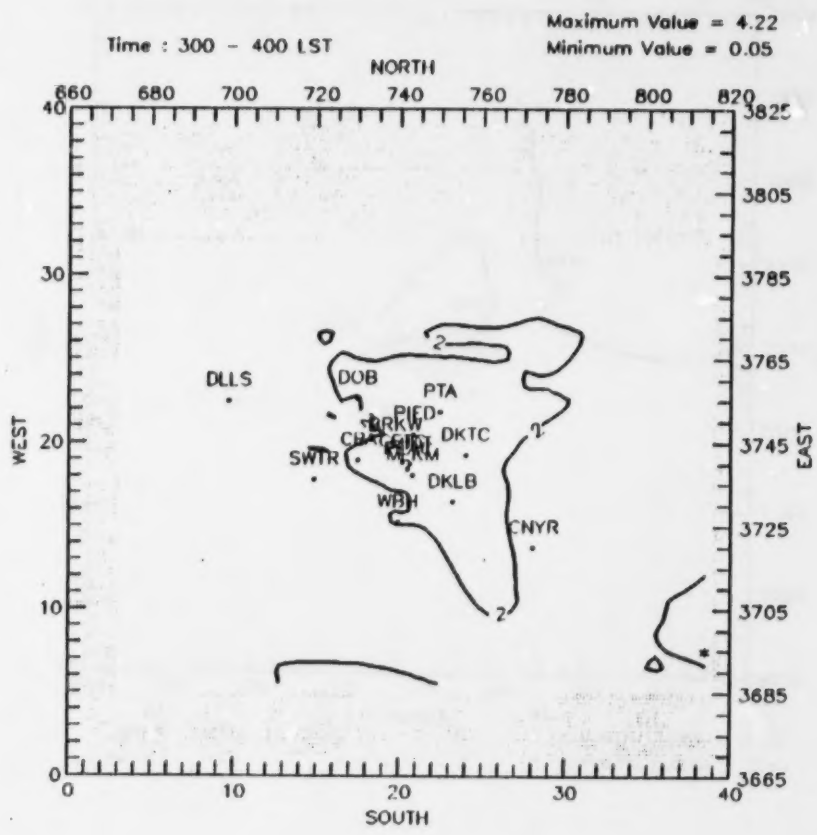
PREDICTED HOURLY OZONE CONCENTRATIONS FOR ATLANTA 1995 EMISSION SCENARIO #2 (46 PERCENT REDUCTION IN VOC EMISSIONS AND 32 PERCENT REDUCTION IN NO_x EMISSIONS)



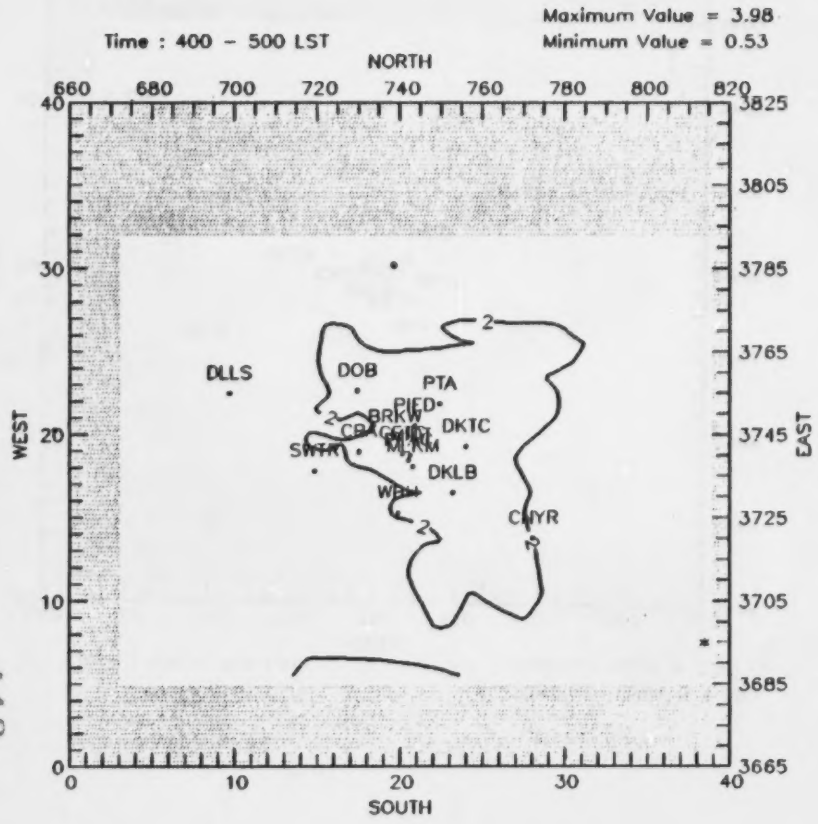


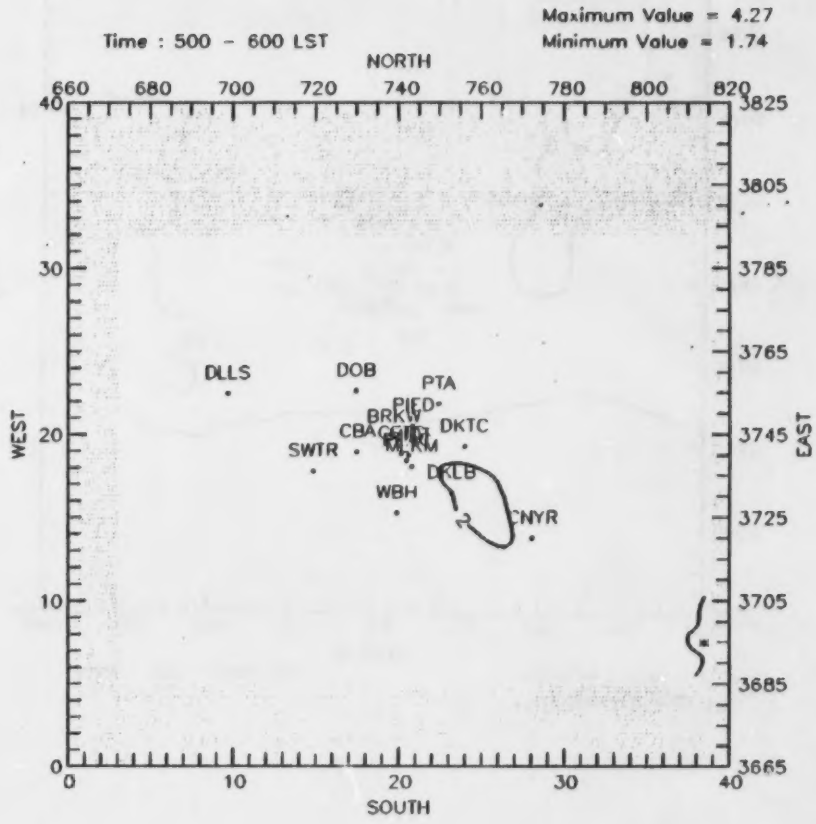
Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984



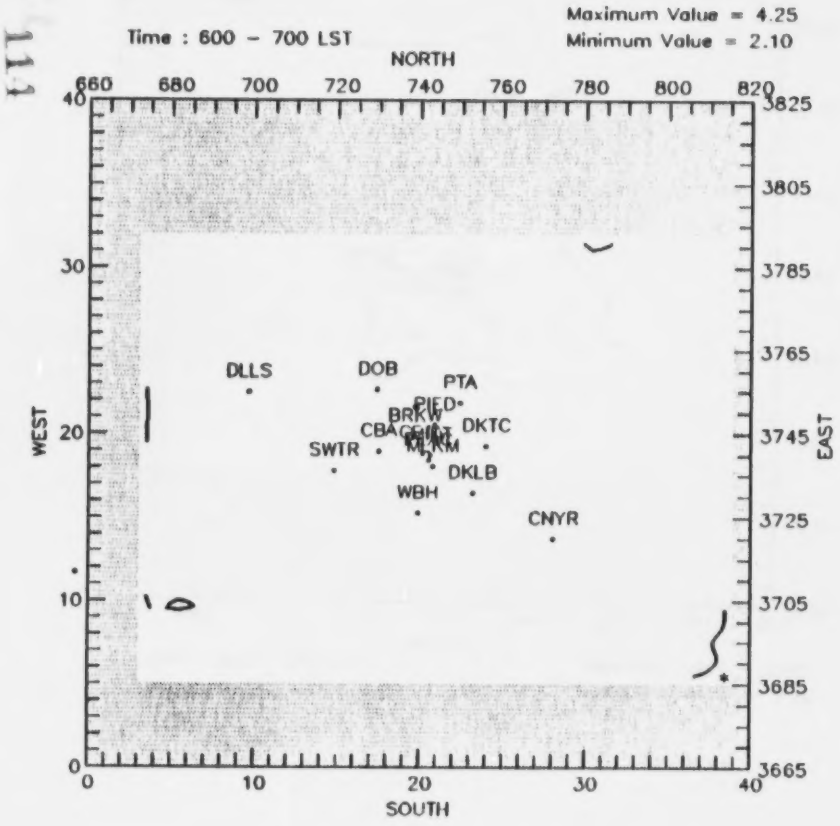


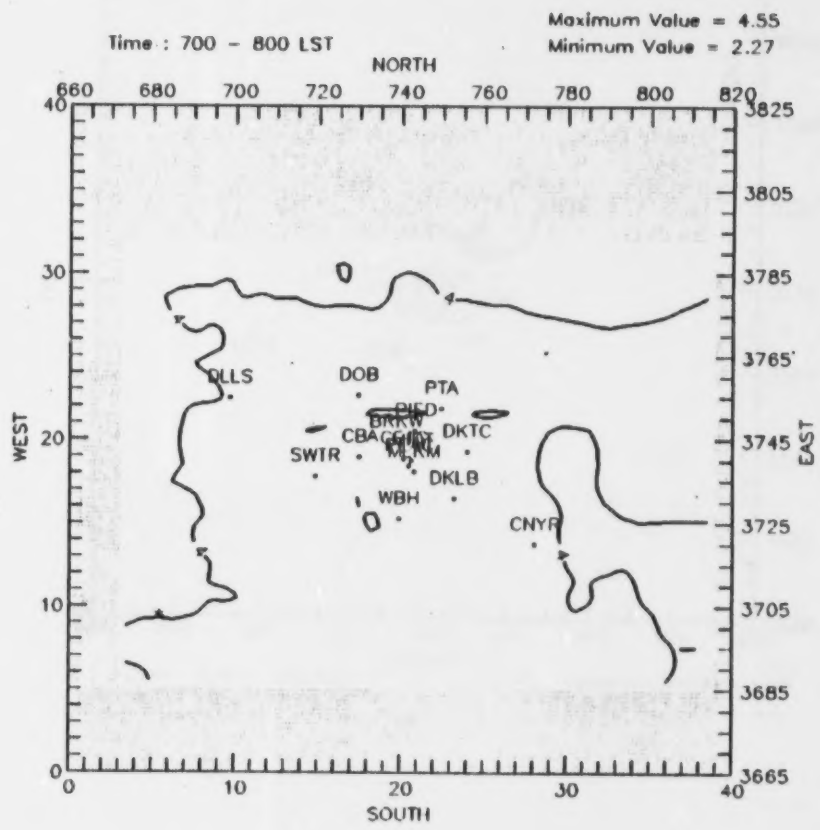
Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984



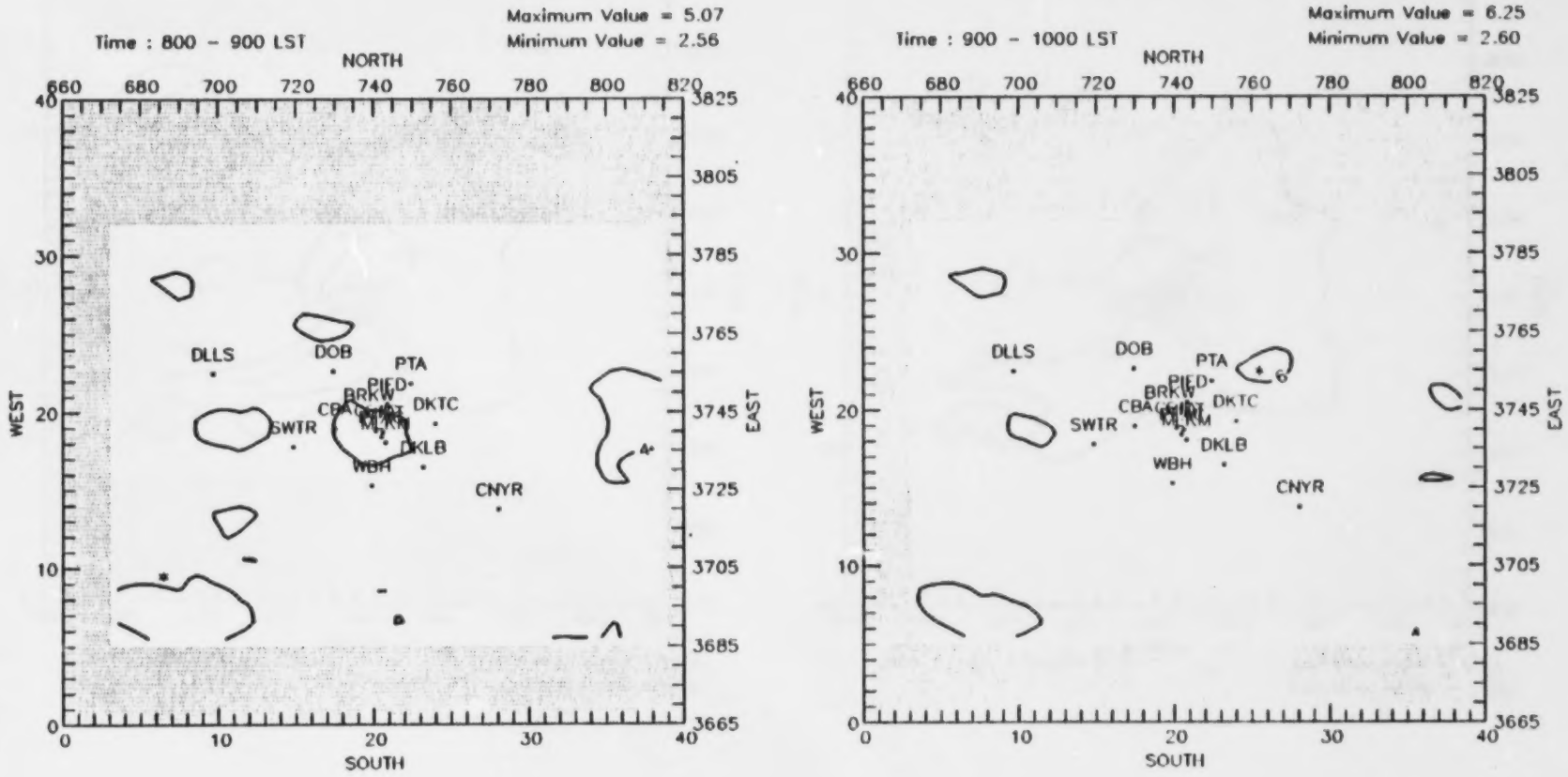


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984

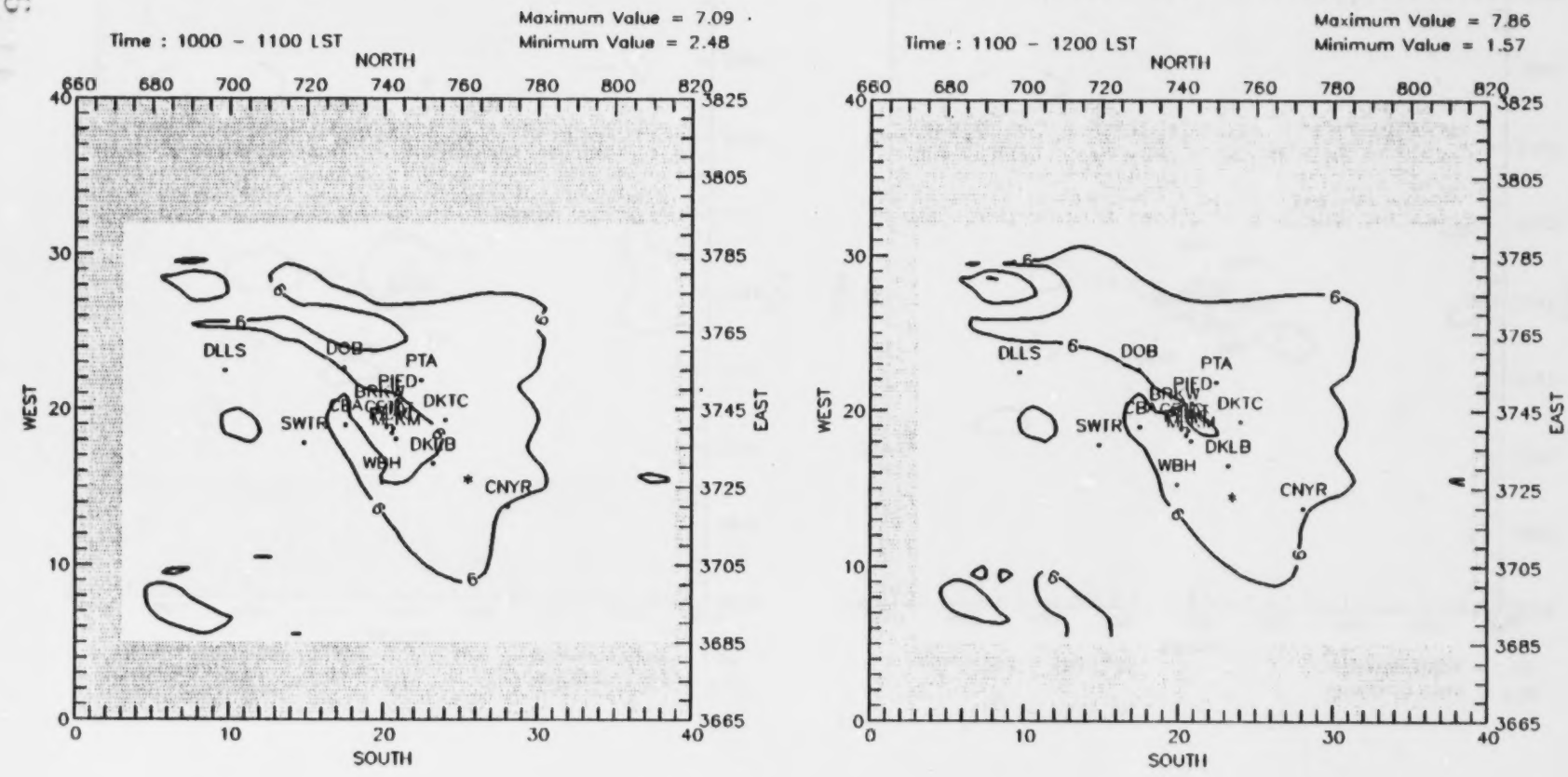




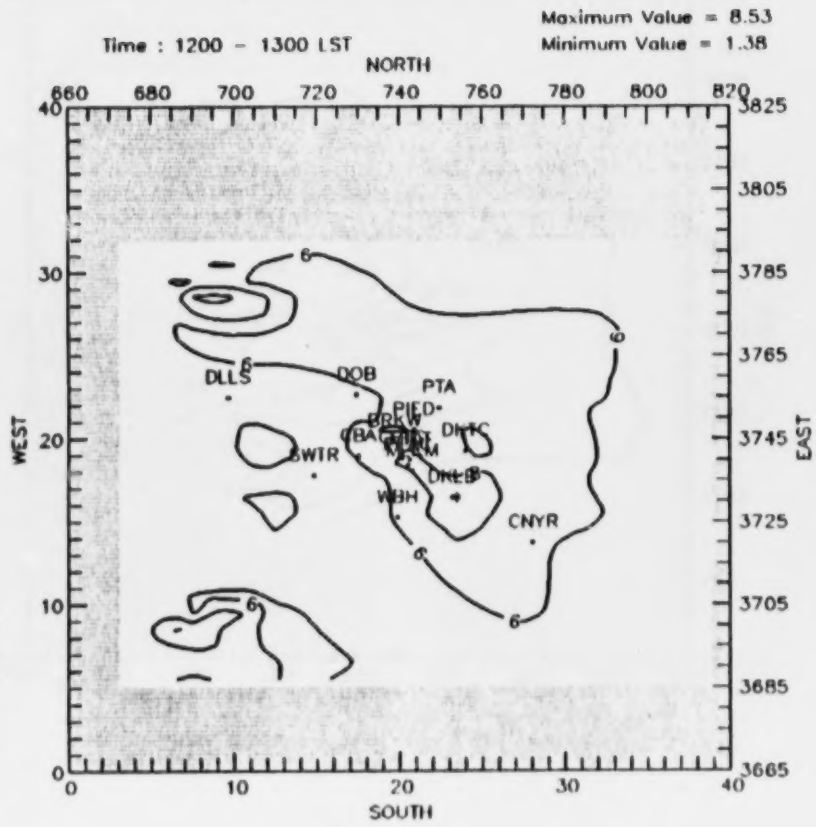
Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984

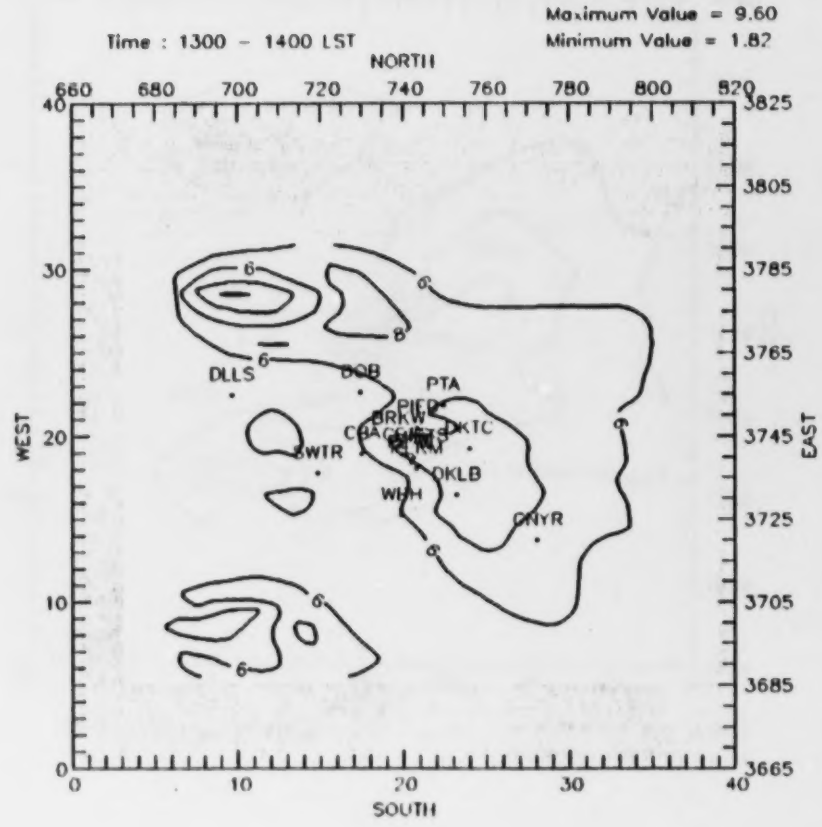


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984

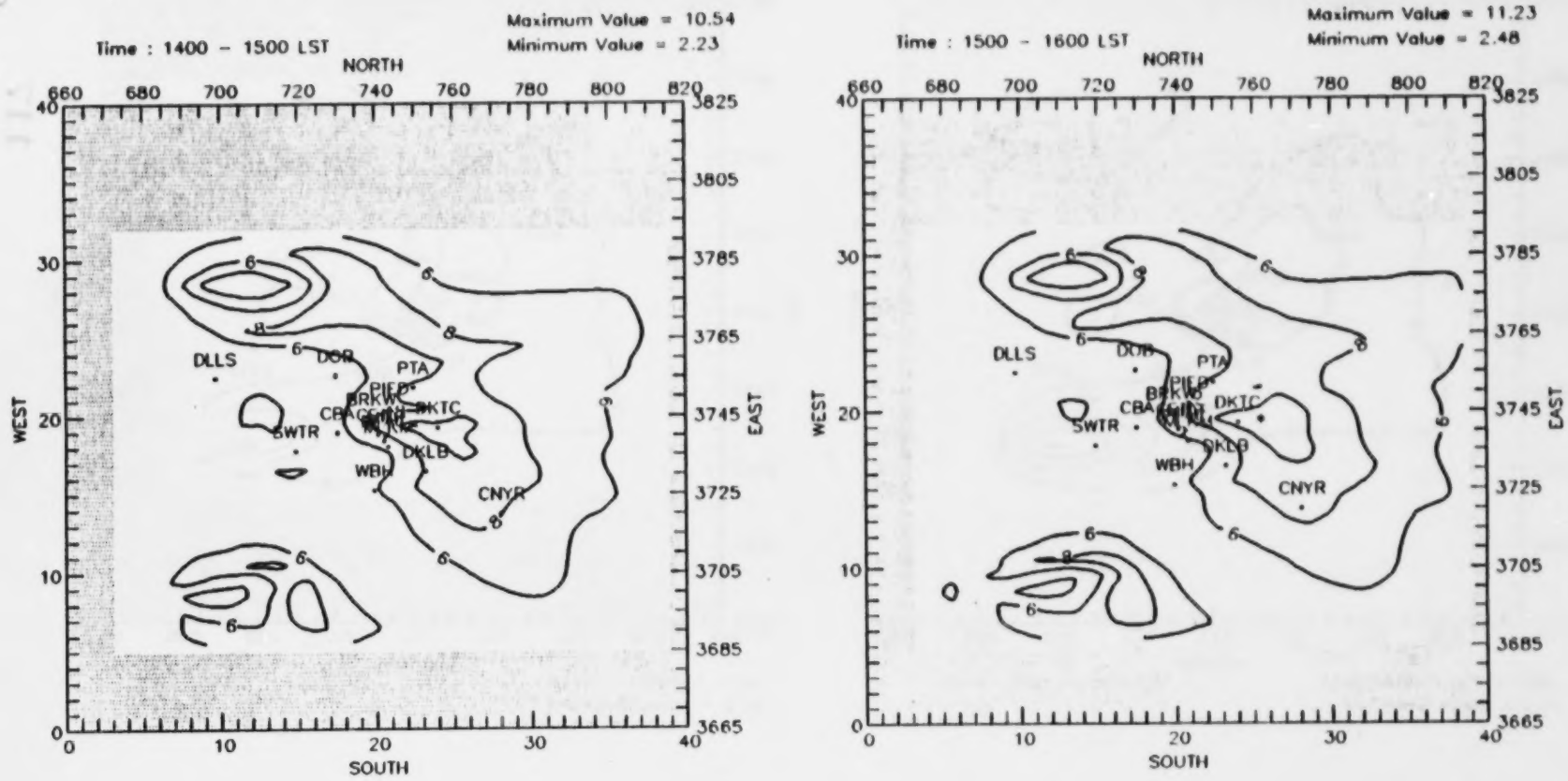


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984

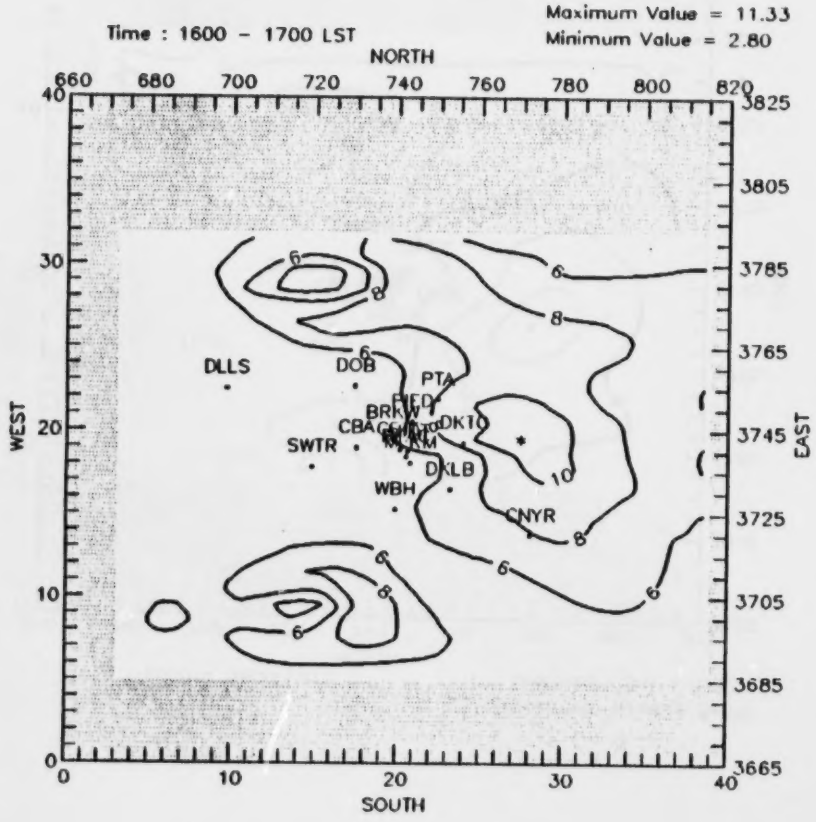


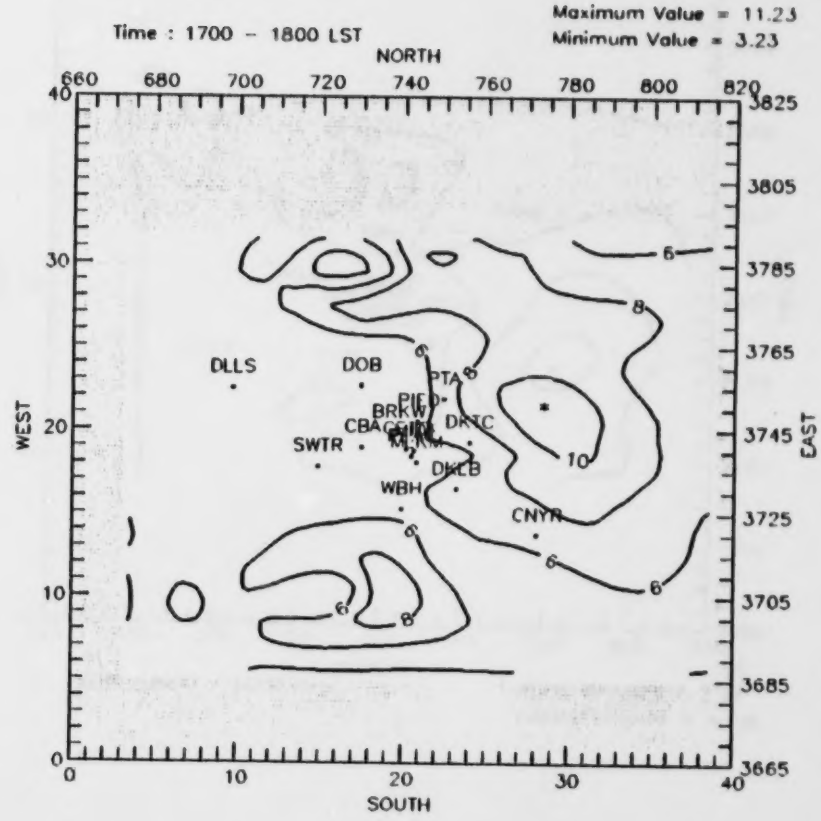


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984

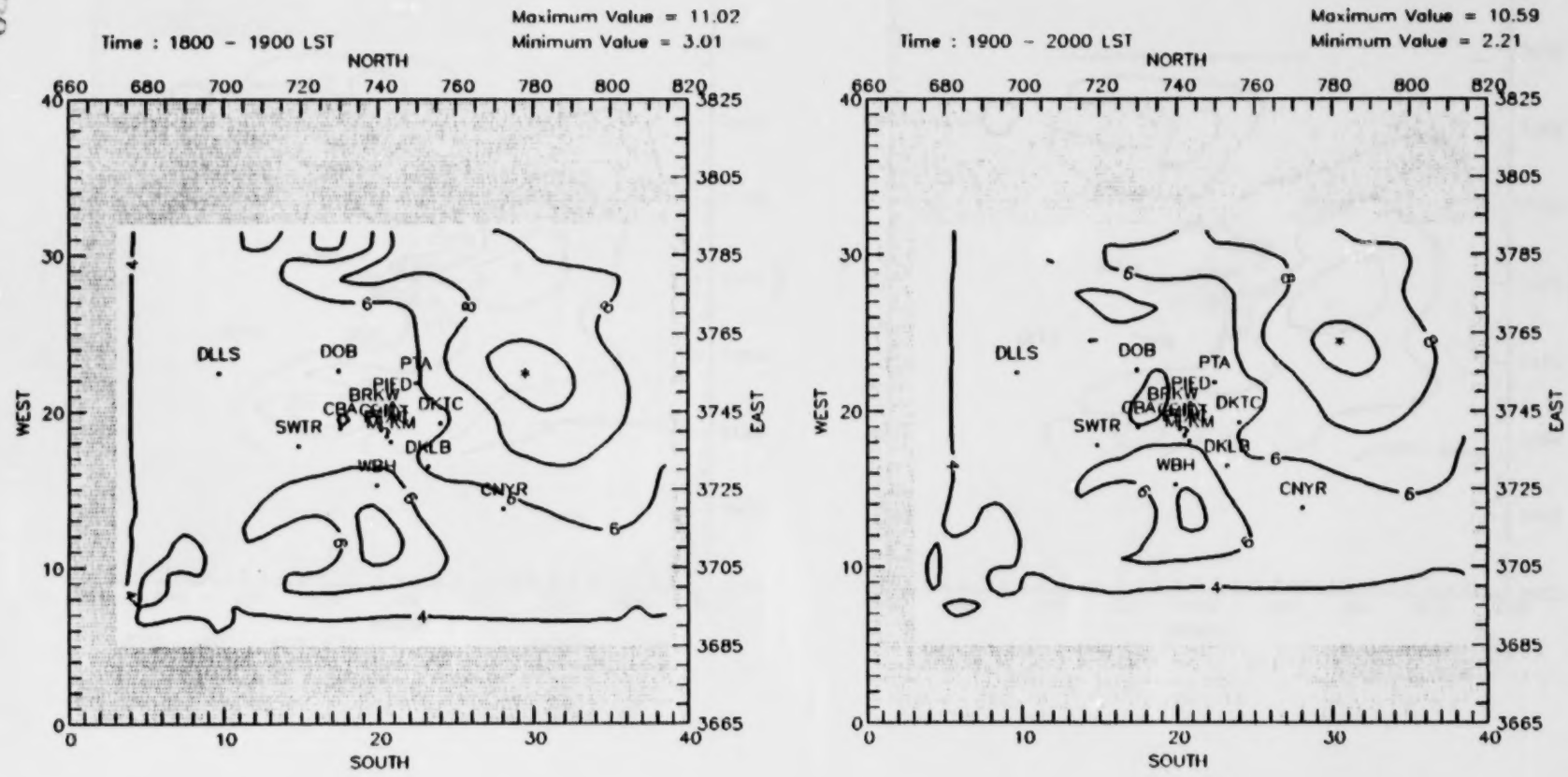


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984





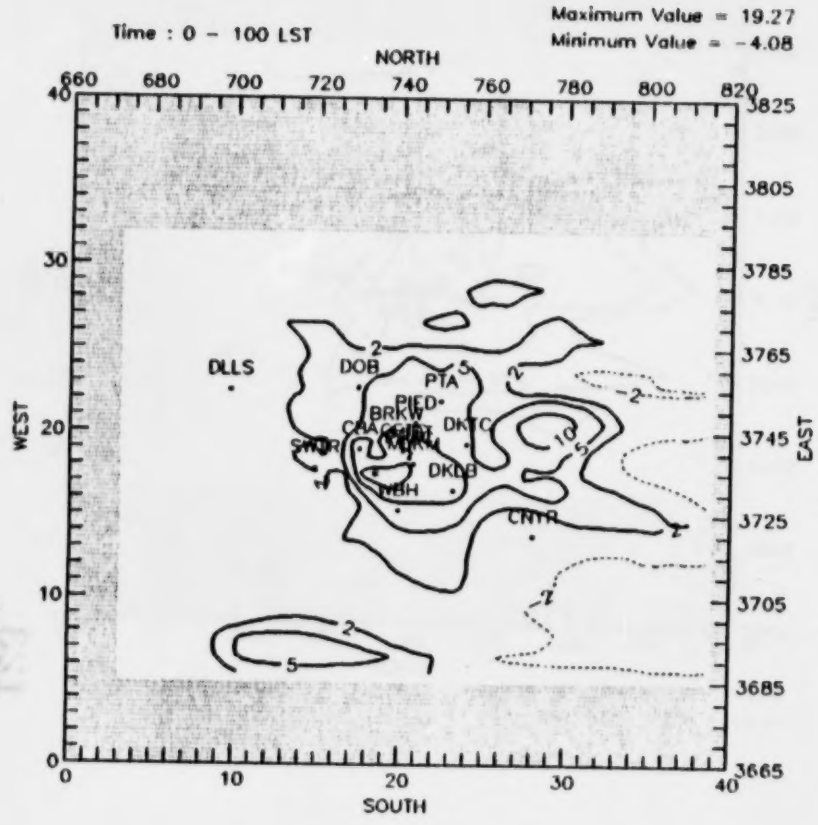
Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984

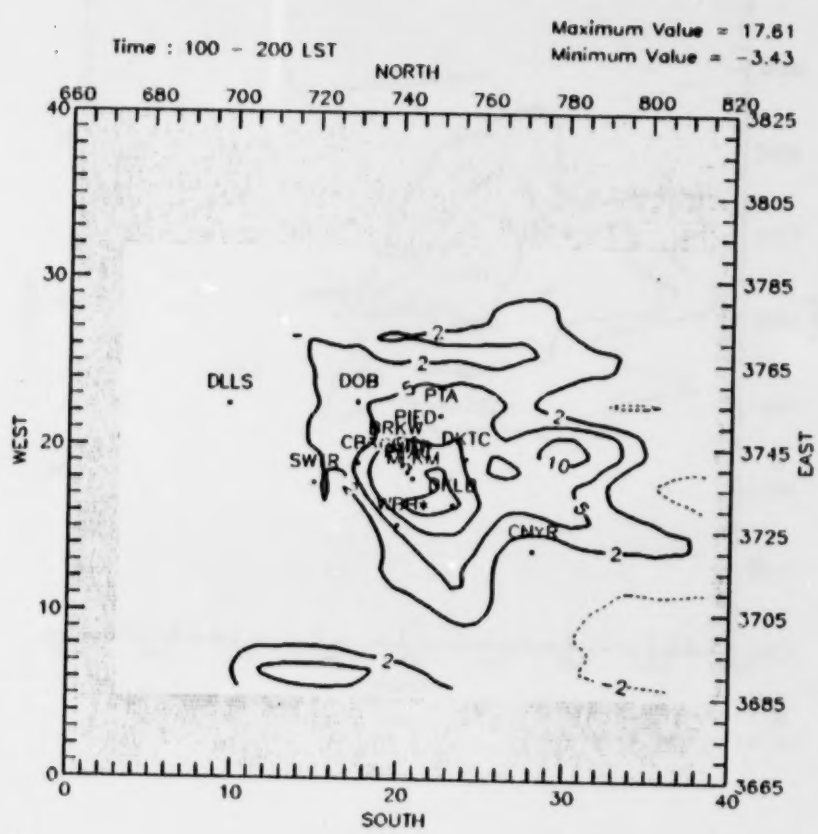


Predicted ozone concentrations (pphm) for Atlanta 1995 Scenario 2 on 4 June, 1984

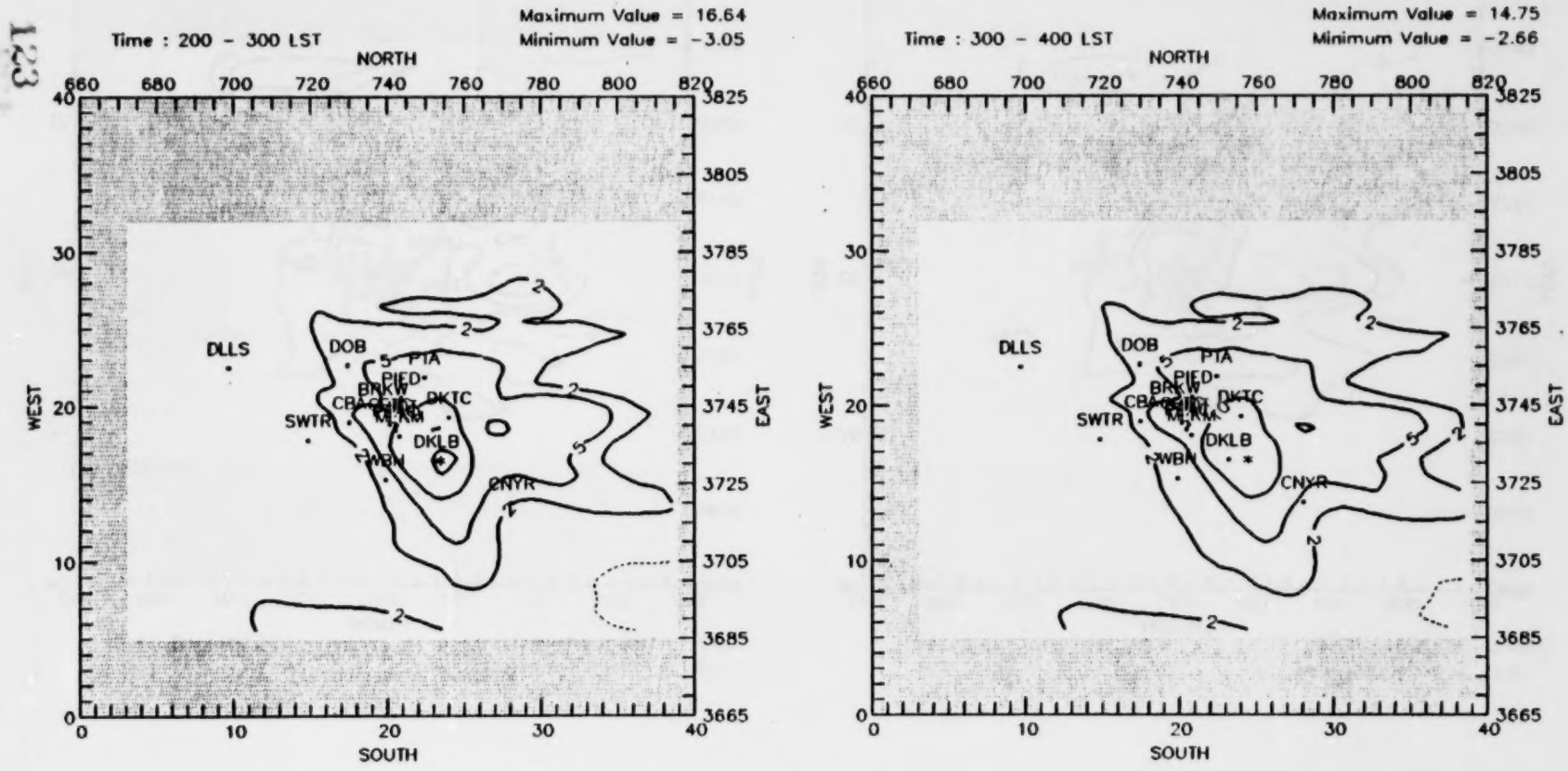
Appendix J

DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) BETWEEN ATLANTA 1995 SCENARIO #1 AND 1995 BASE CASE (SCENARIO #1 MINUS BASE CASE)

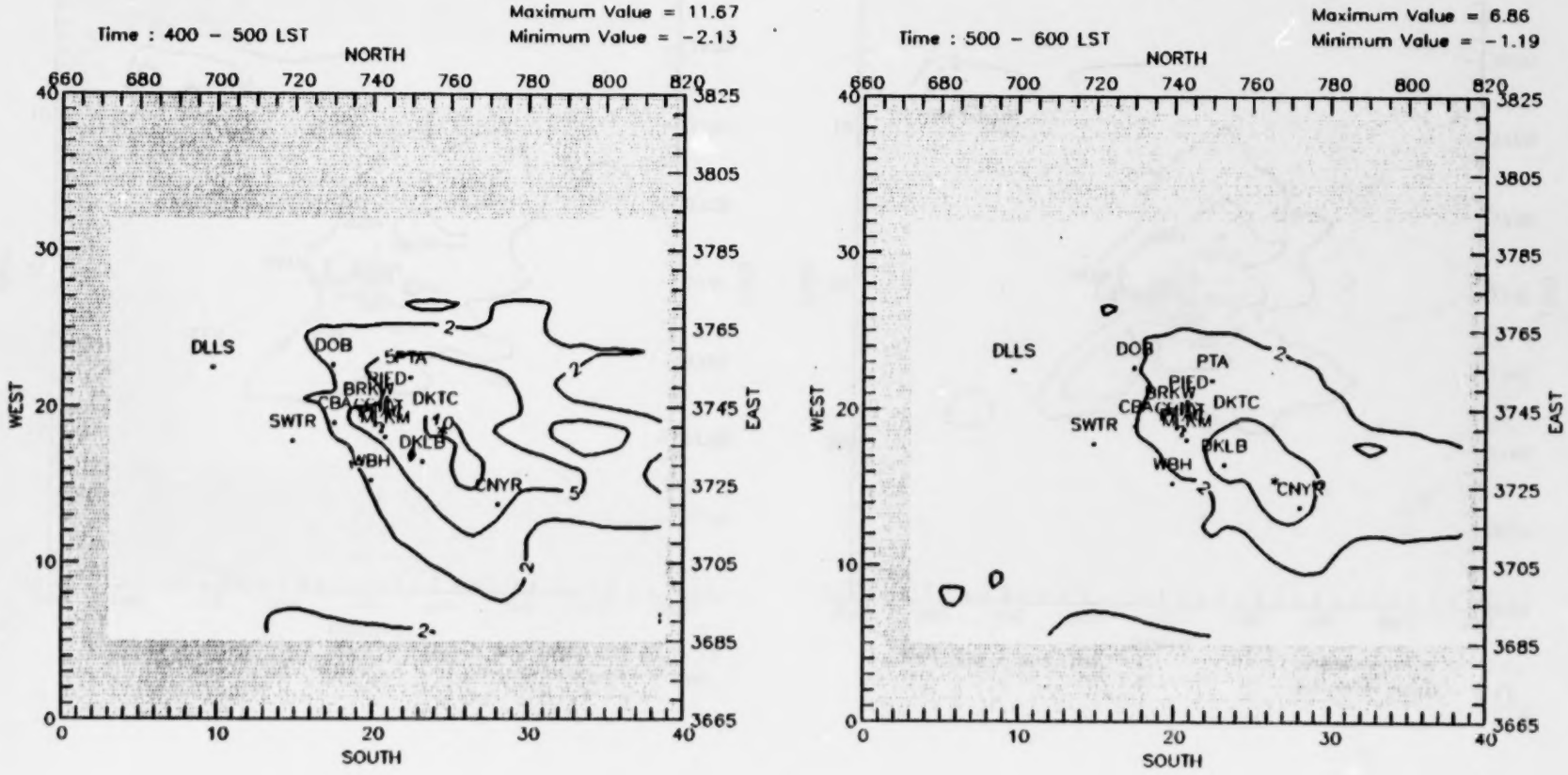




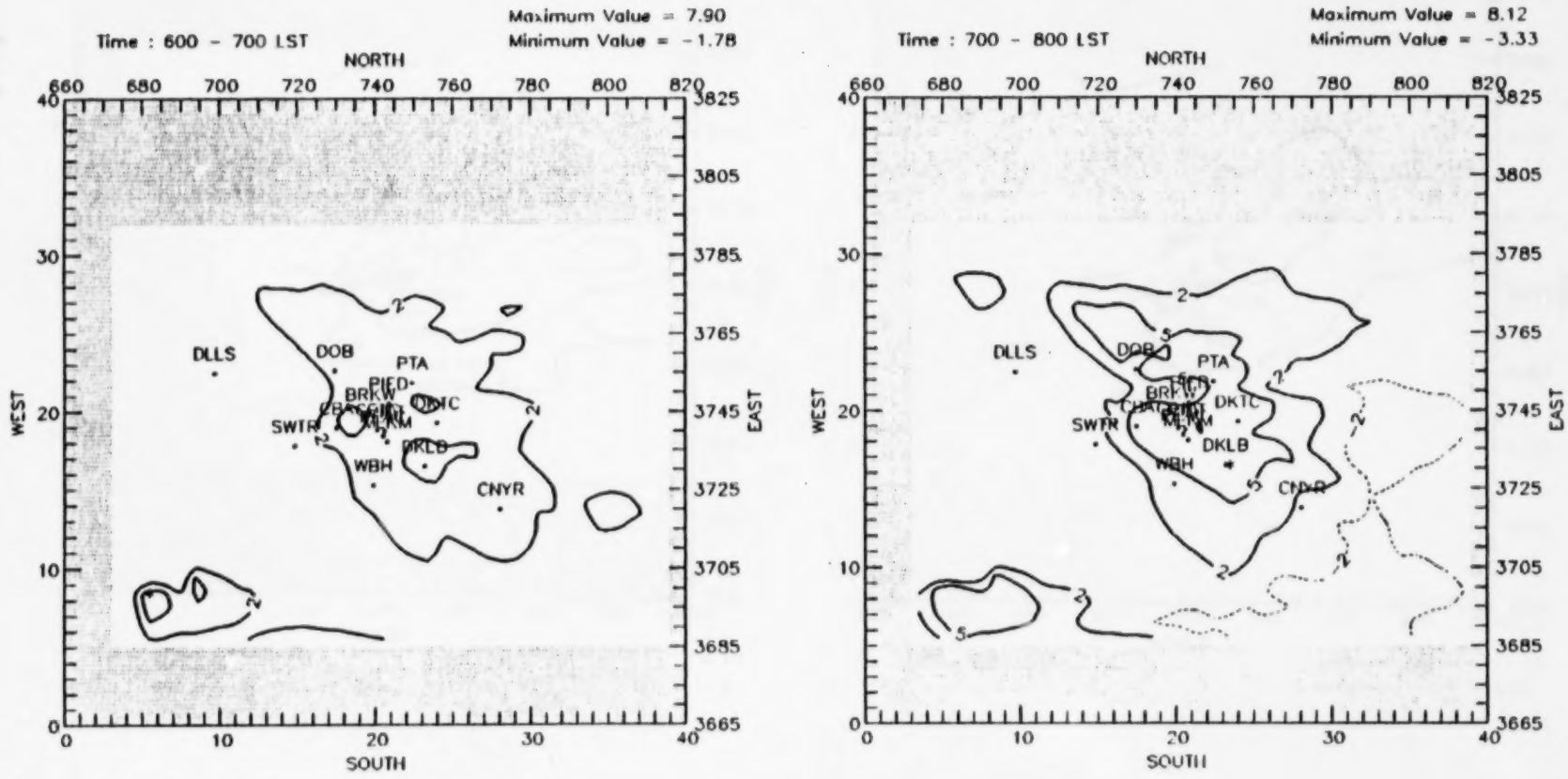
Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984



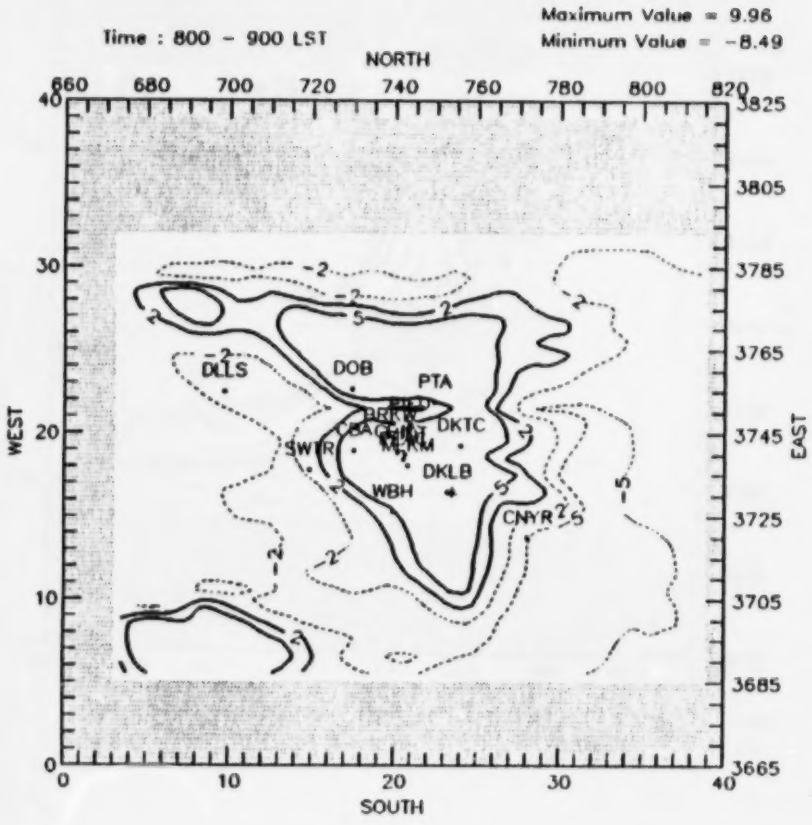
Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984

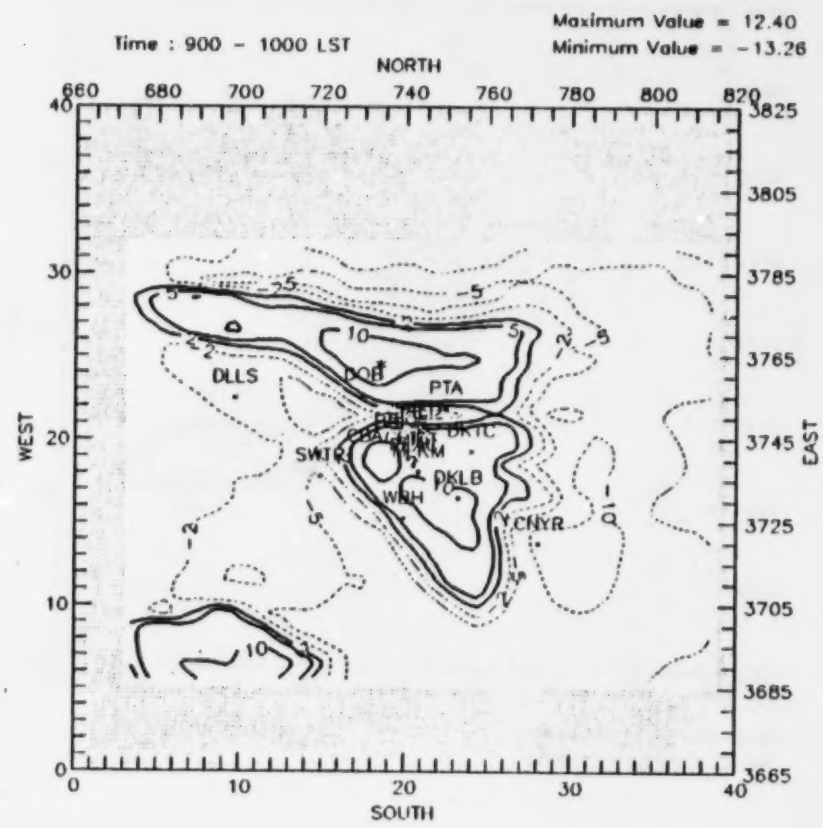


Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984



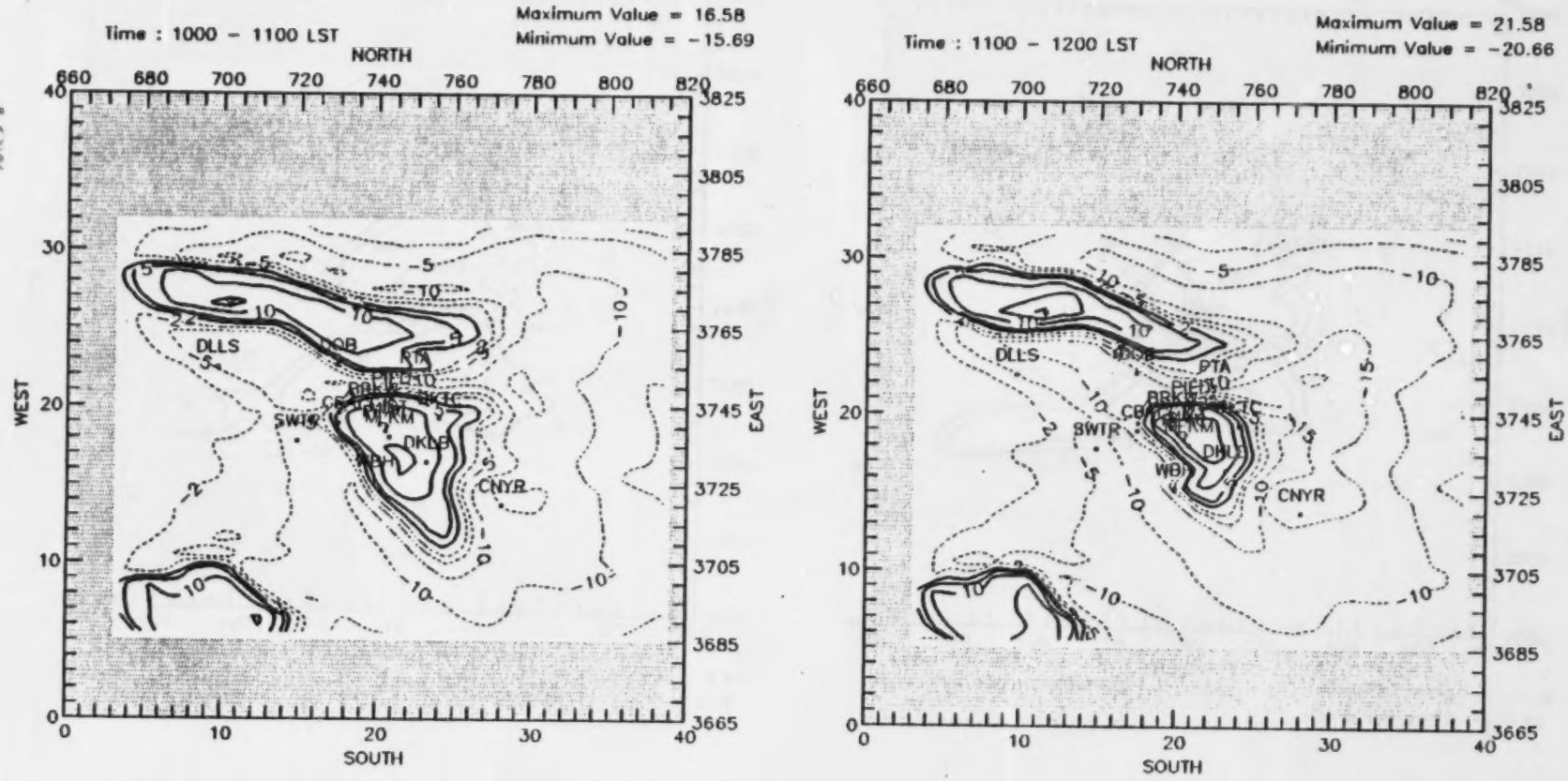
Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984



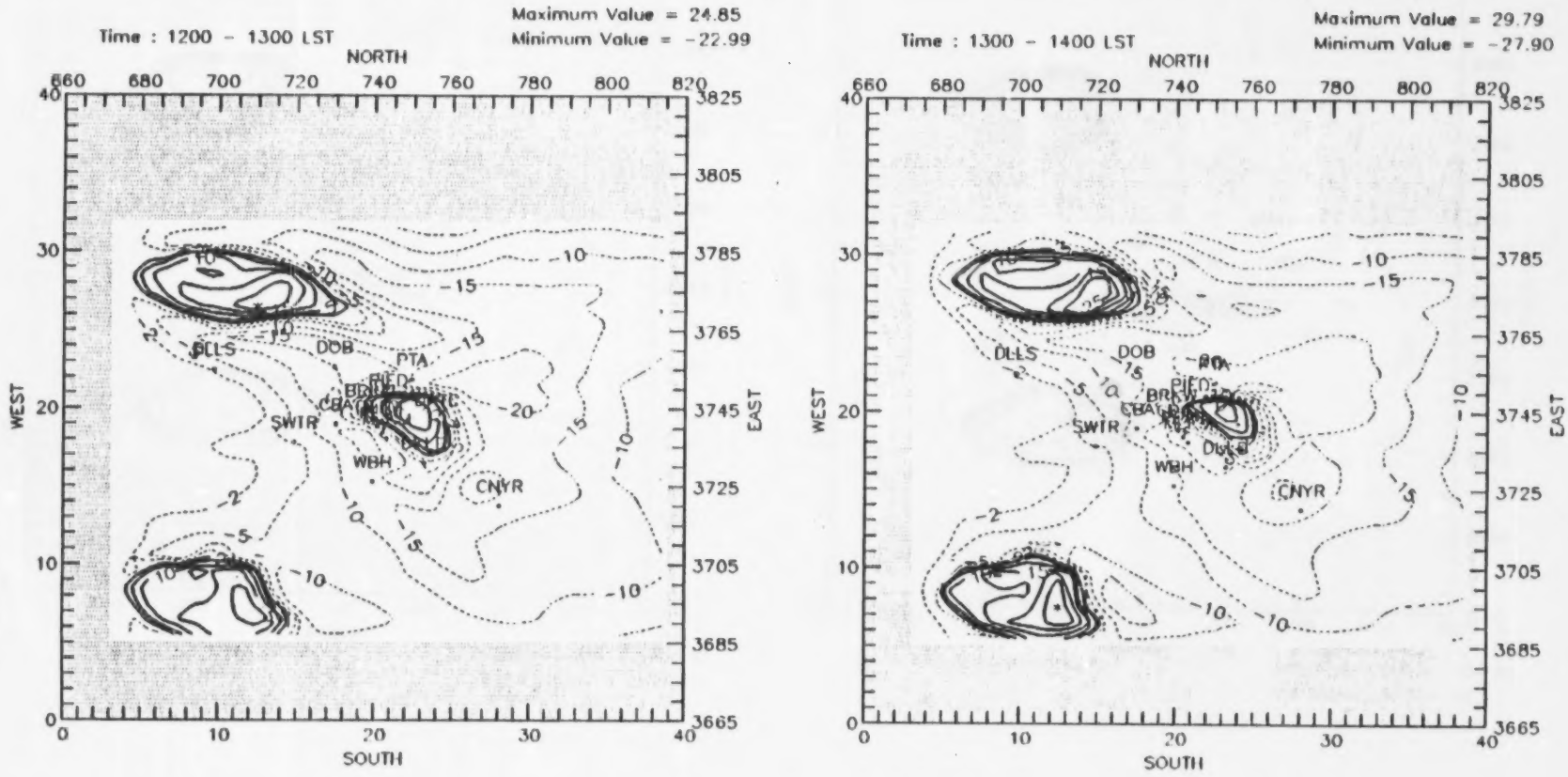


Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984

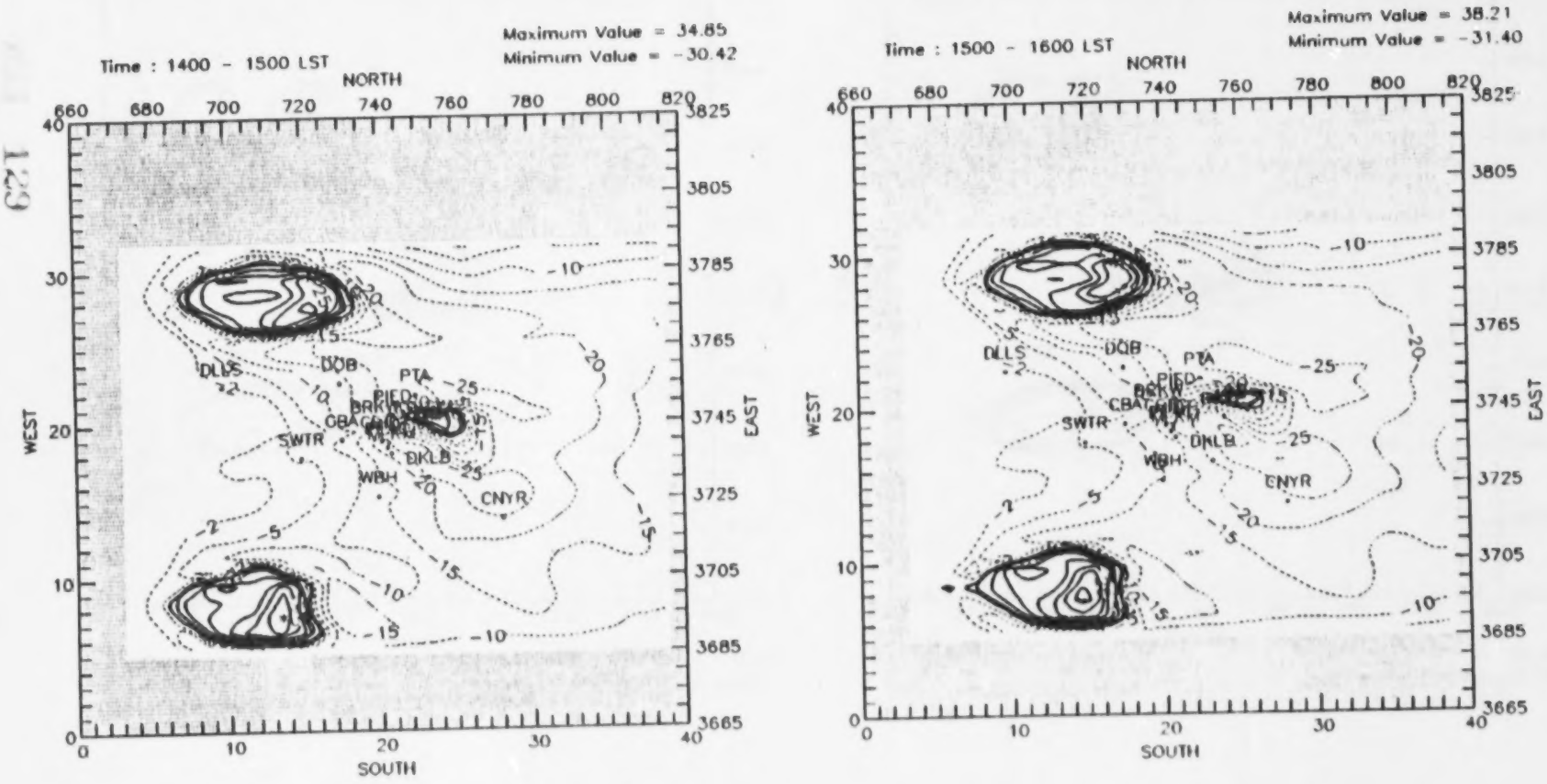
Reproduced from
best available copy.



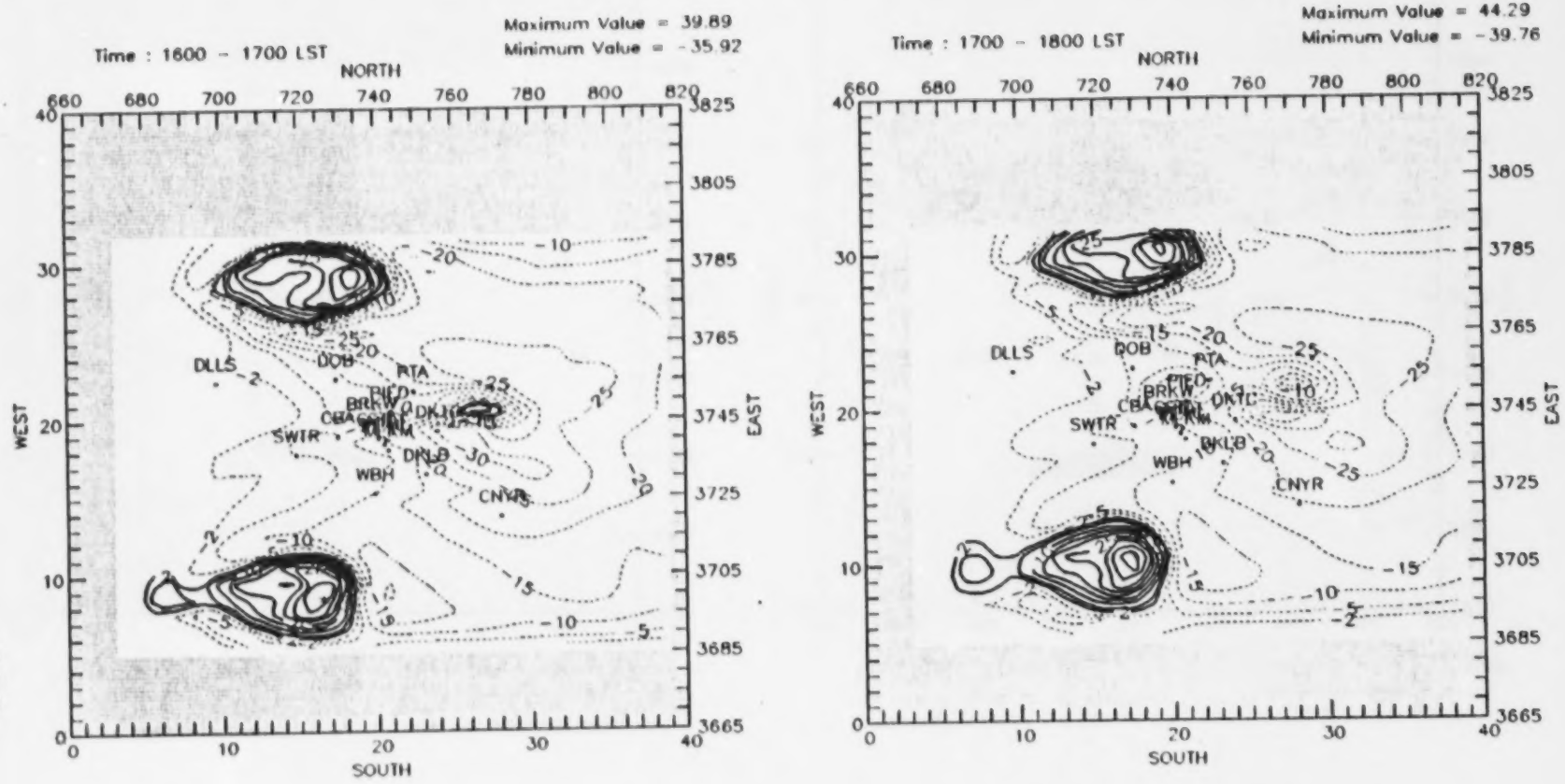
Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984



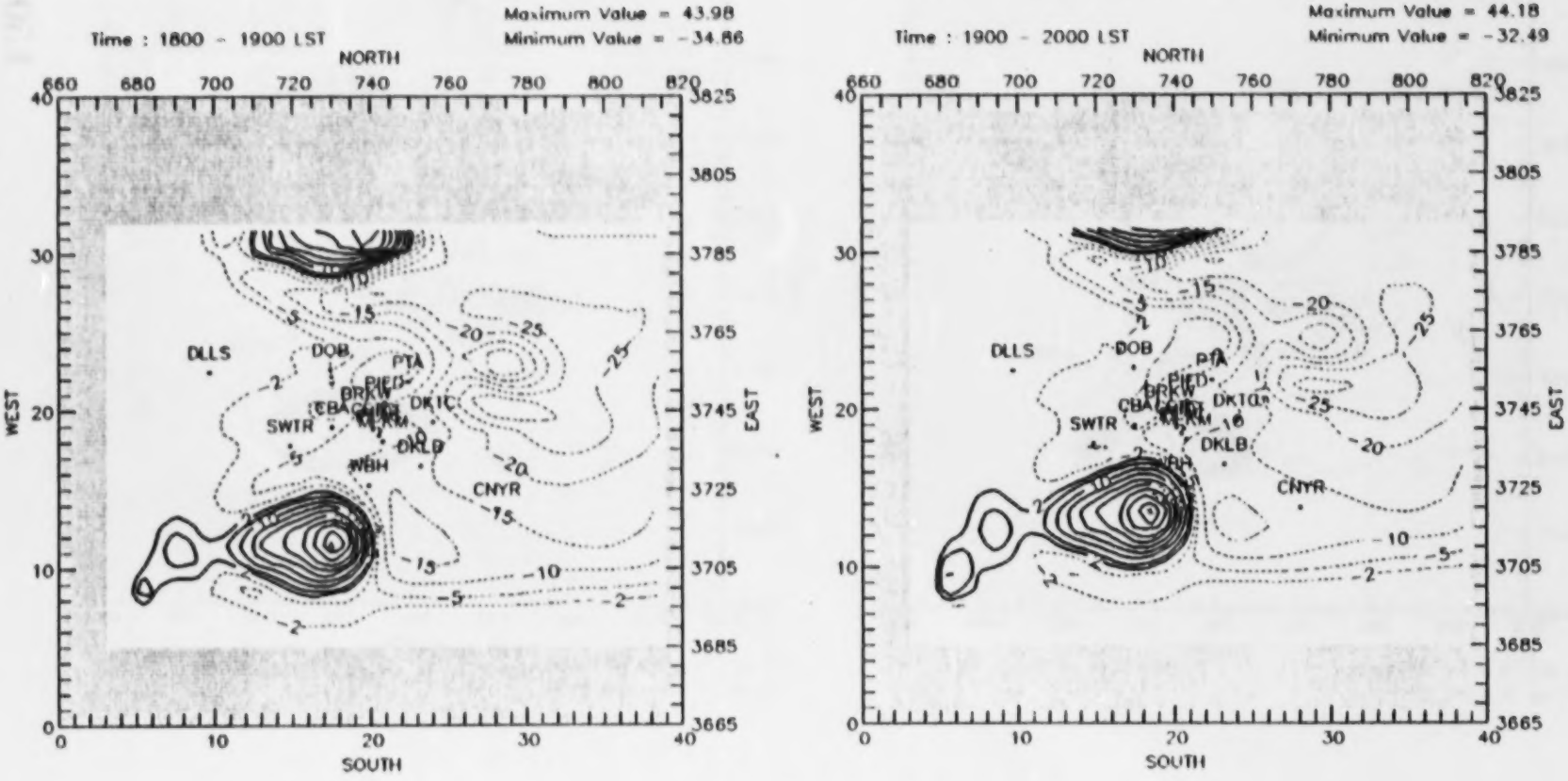
Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984



Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984



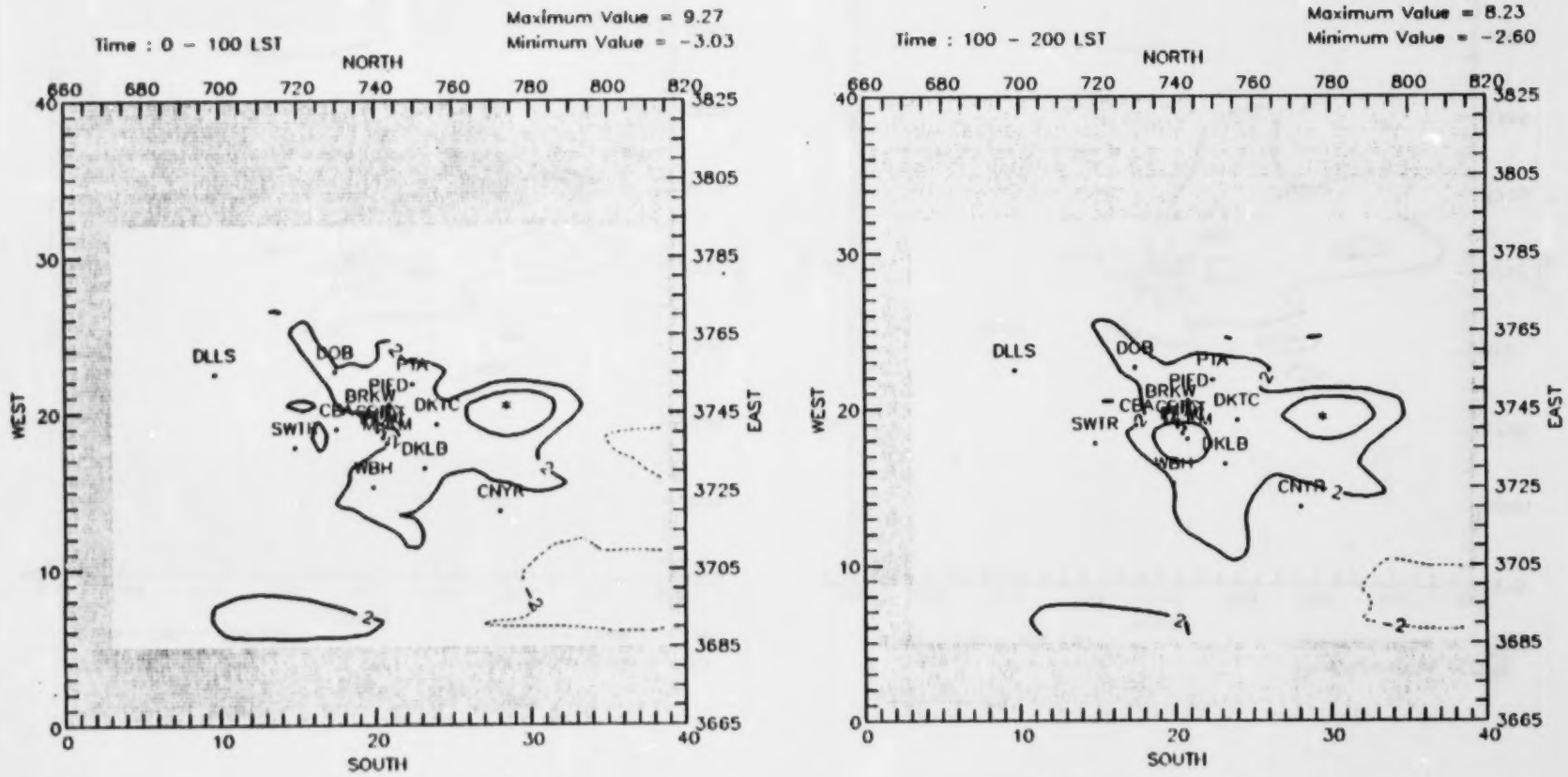
Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984



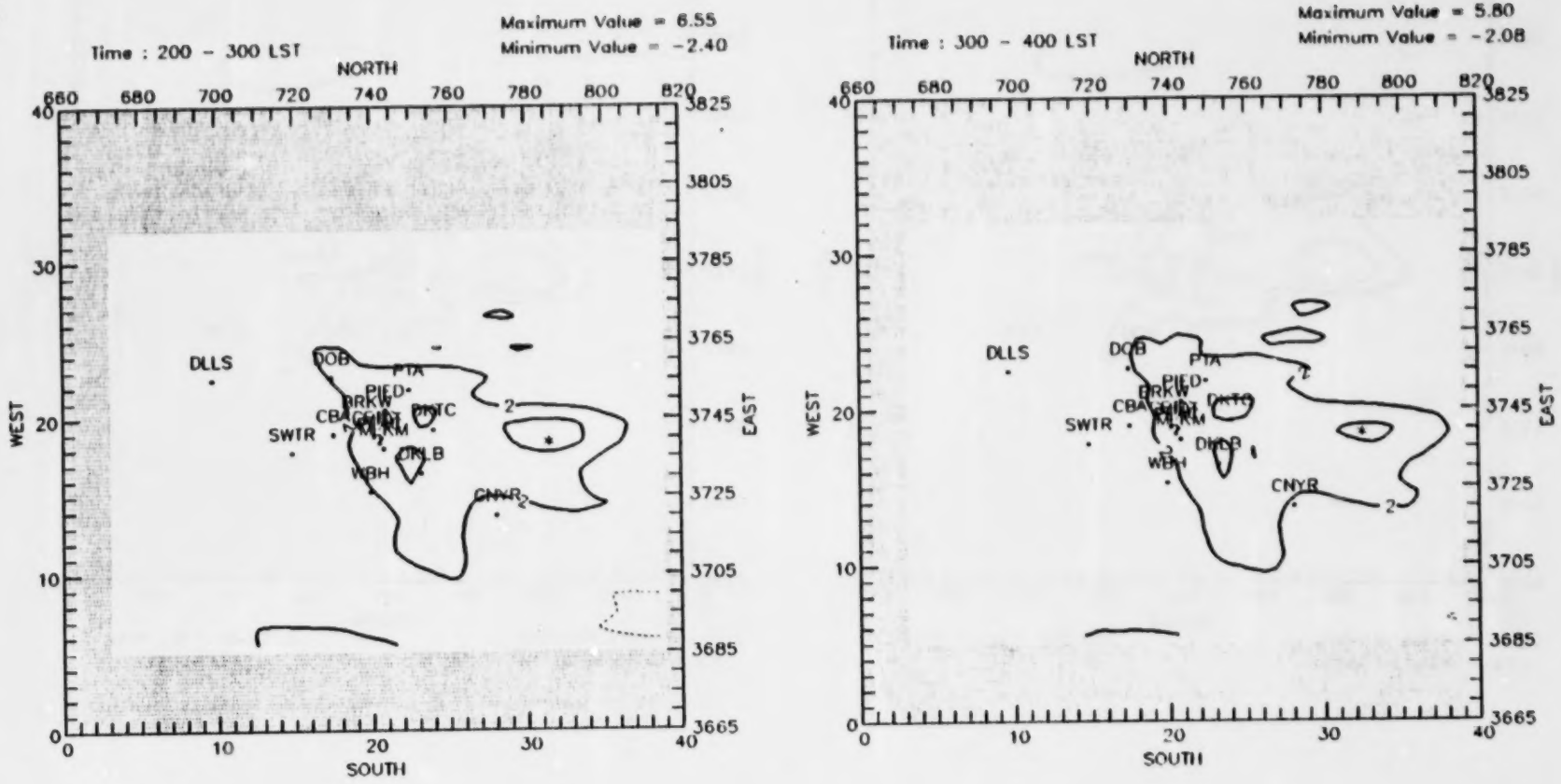
Difference in ozone concentrations (ppb) between 1995 Scenario 1 and base case for Atlanta on 4 June, 1984

Appendix K

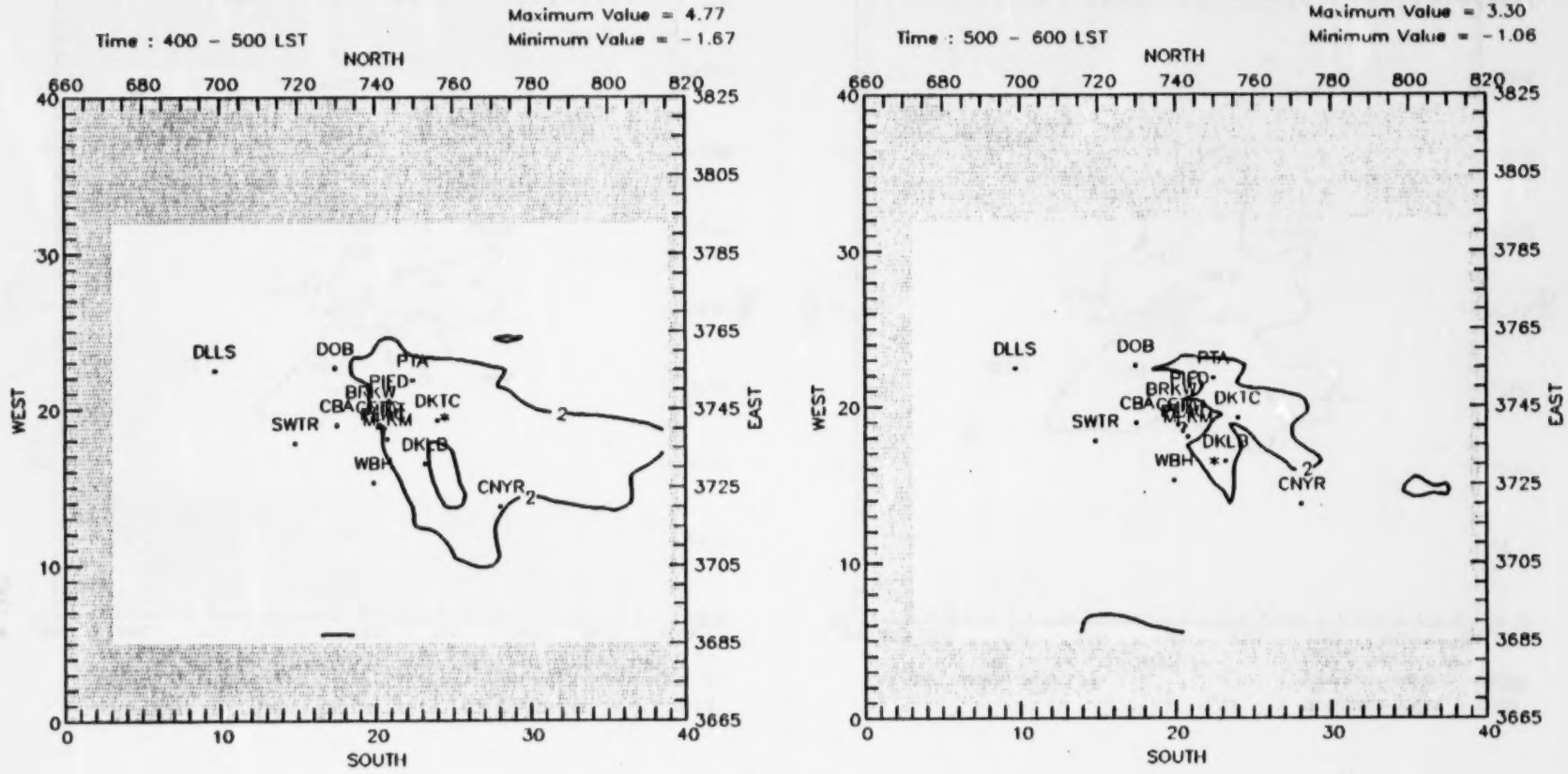
DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb)
BETWEEN ATLANTA 1995 SCENARIO #2 AND 1995 BASE
CASE (SCENARIO #2 MINUS BASE CASE)



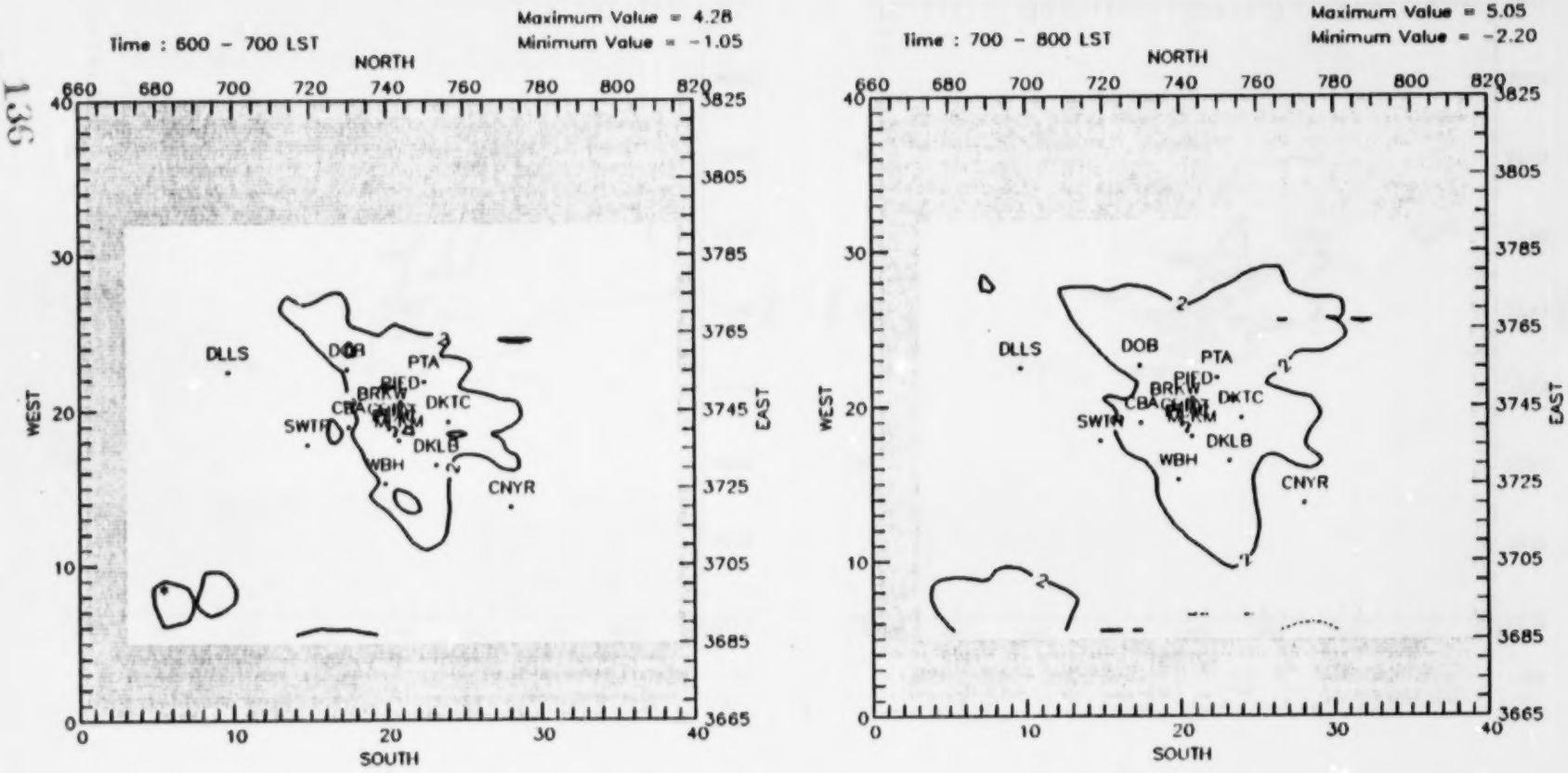
Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984



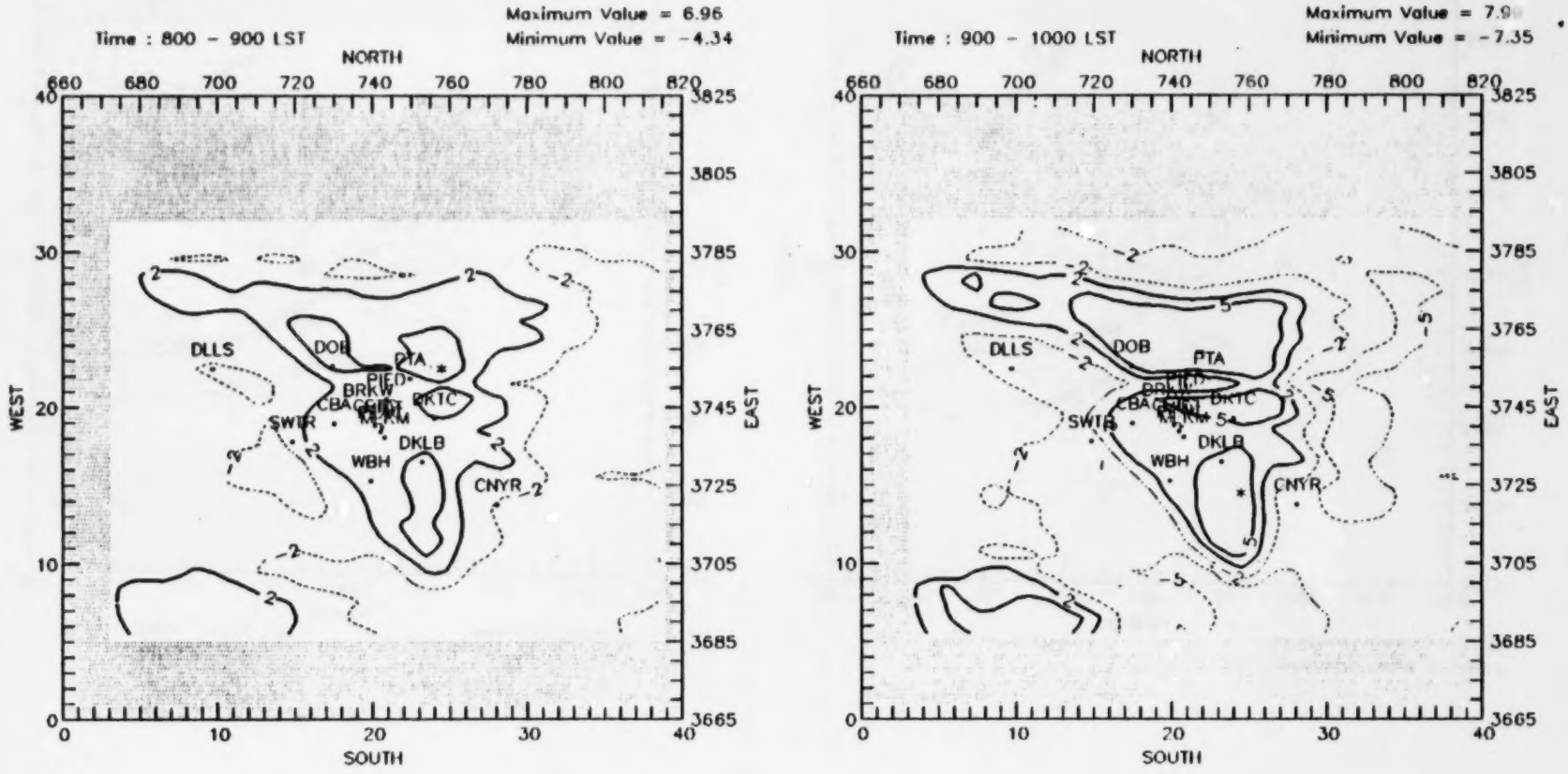
Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984



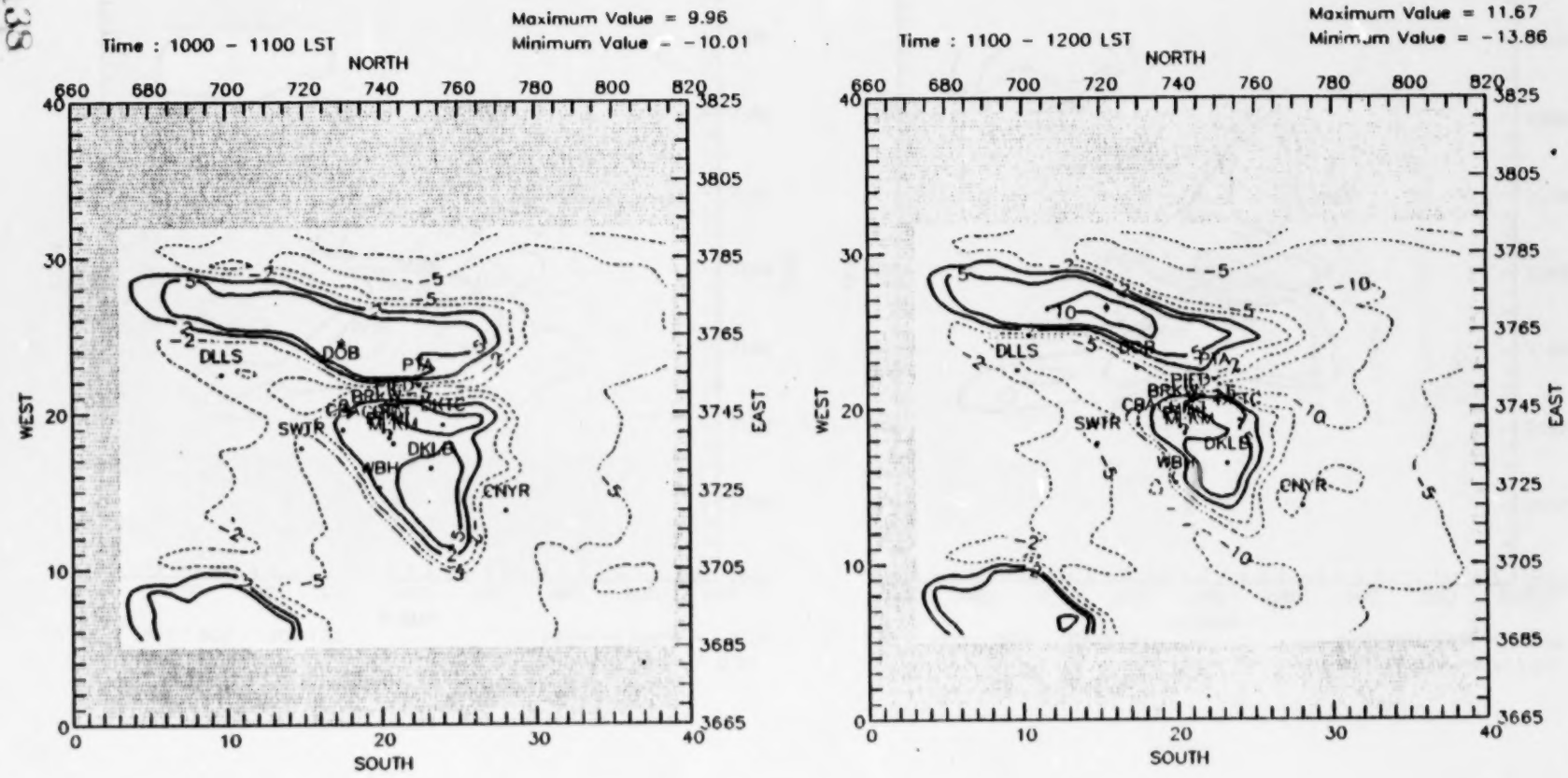
Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984



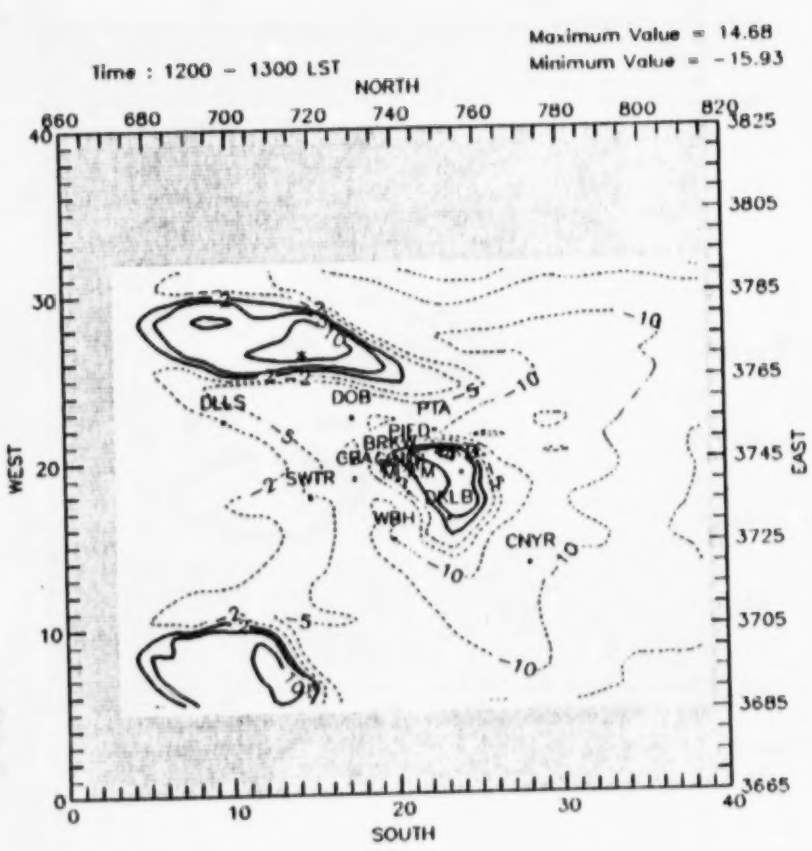
Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984

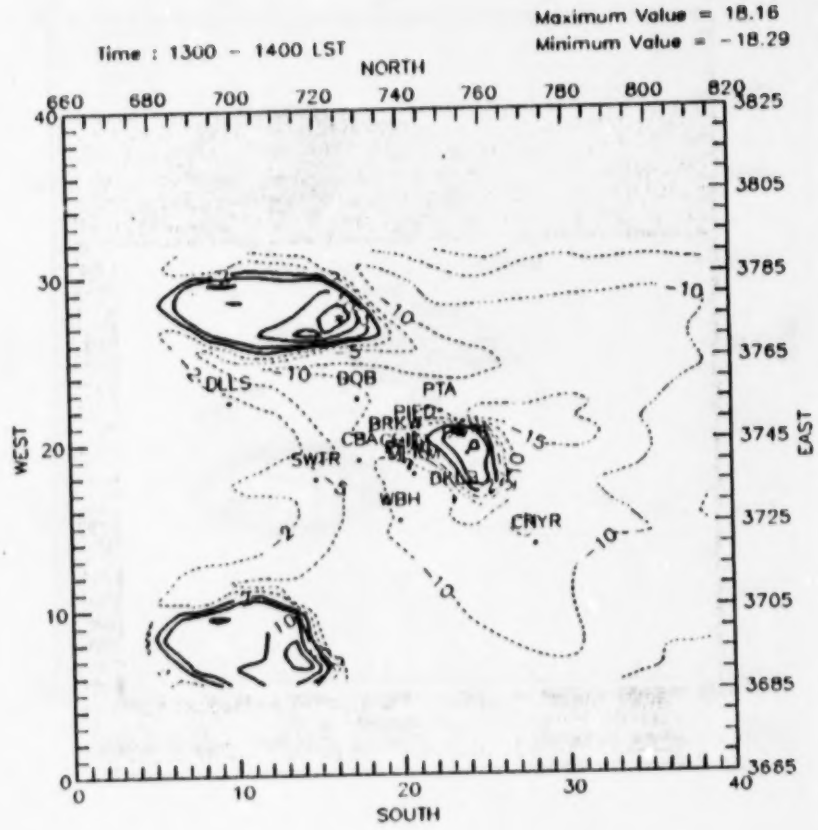


Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984

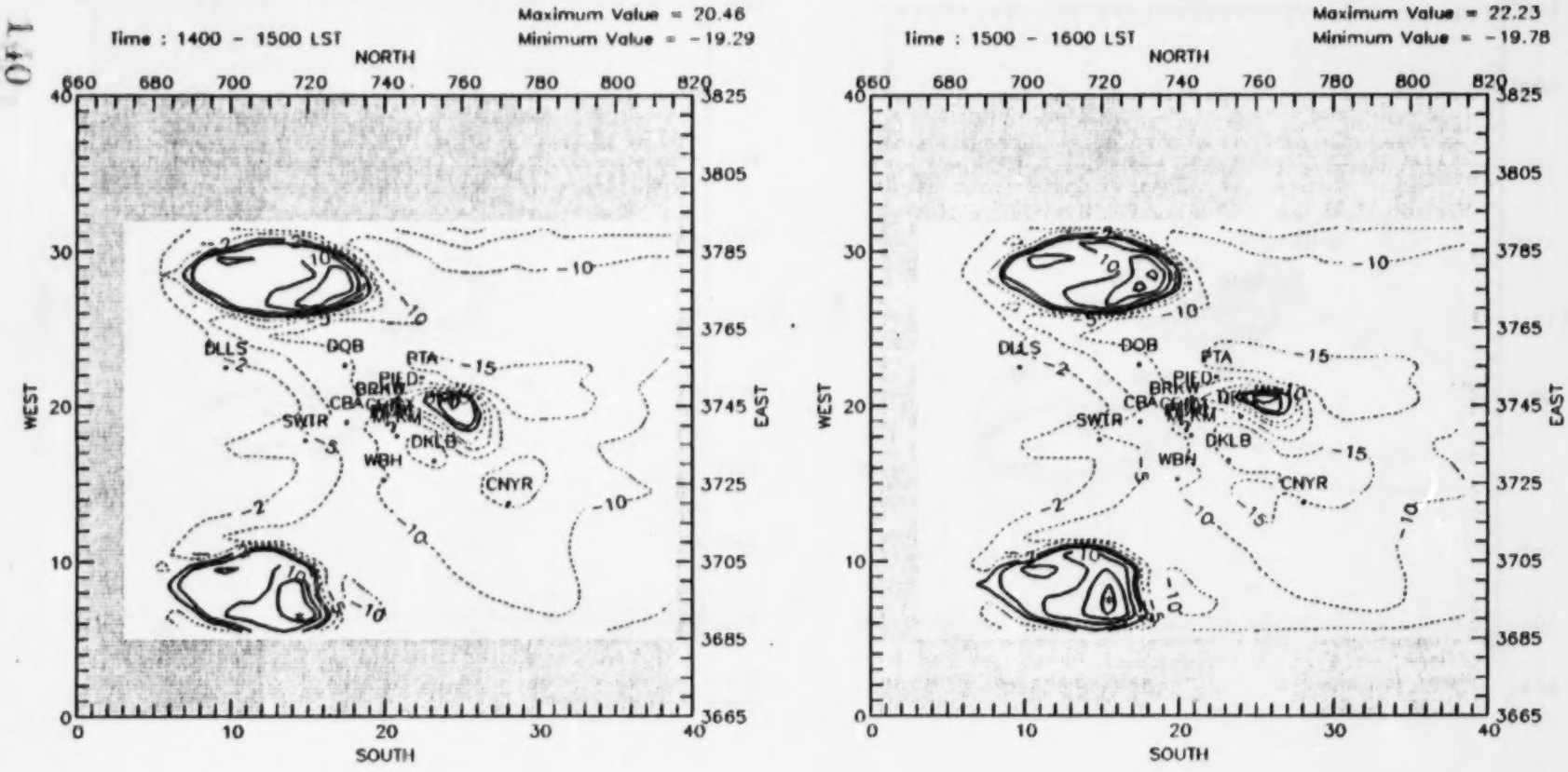


Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984

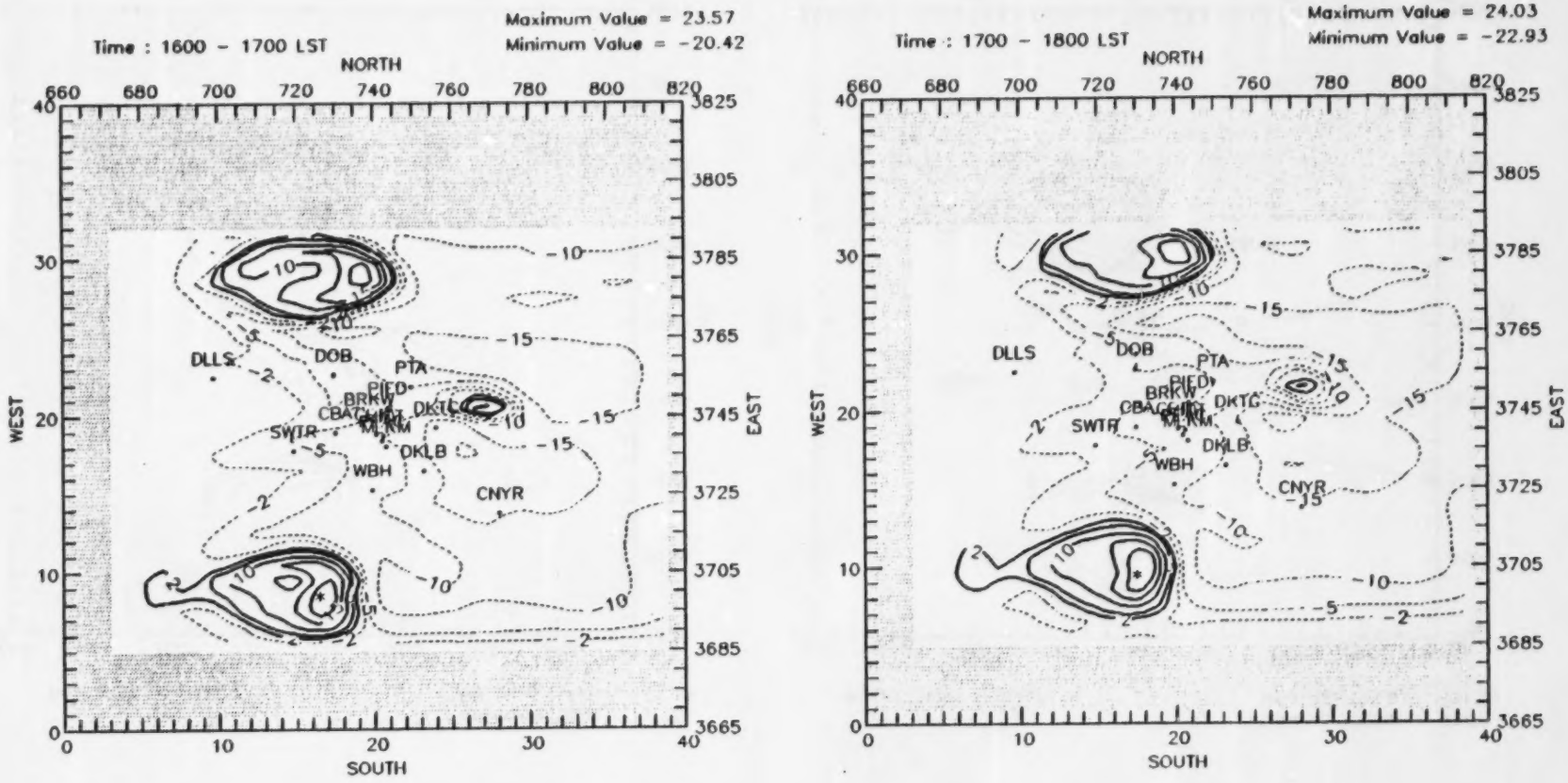




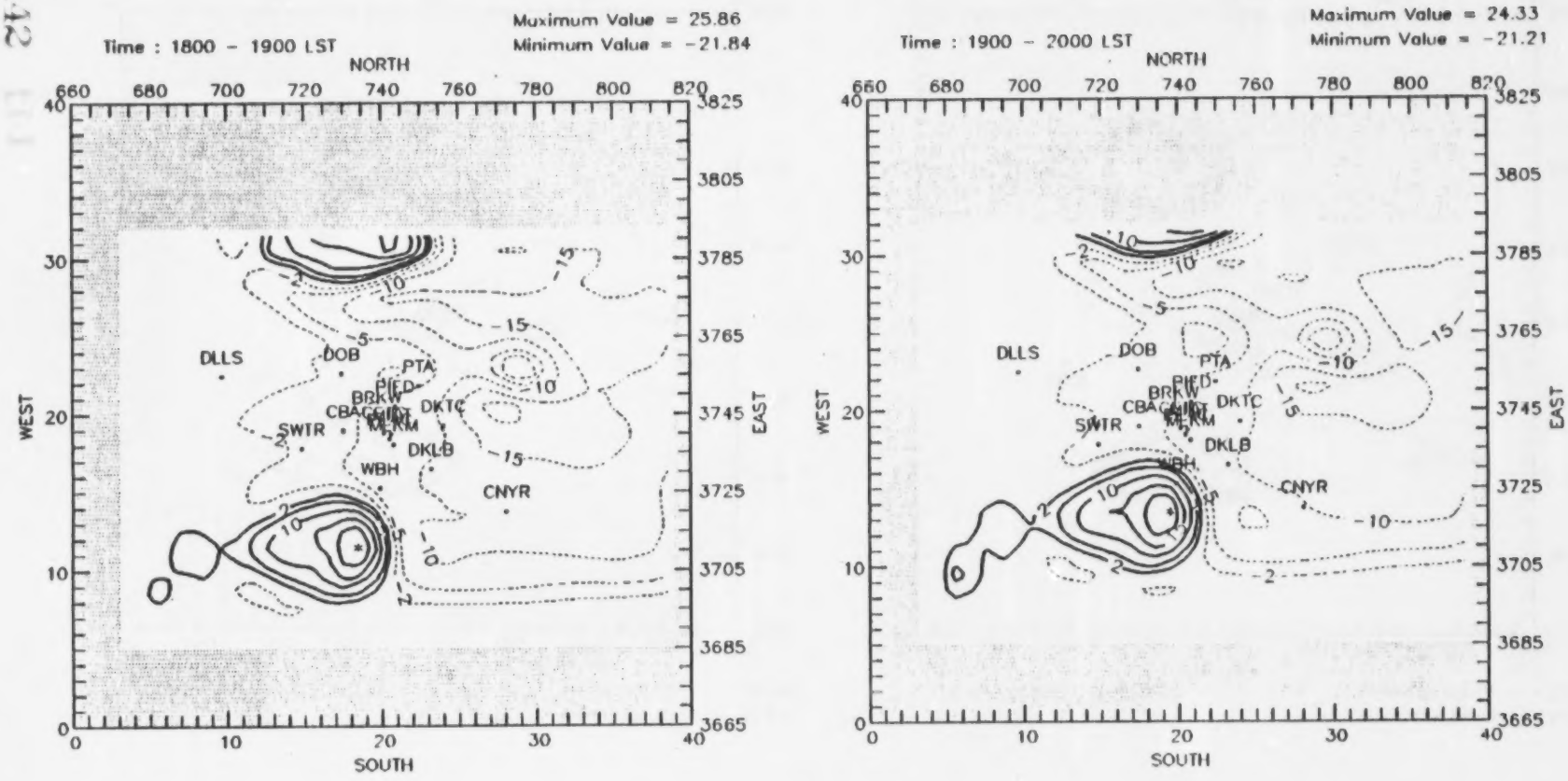
Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984



Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984



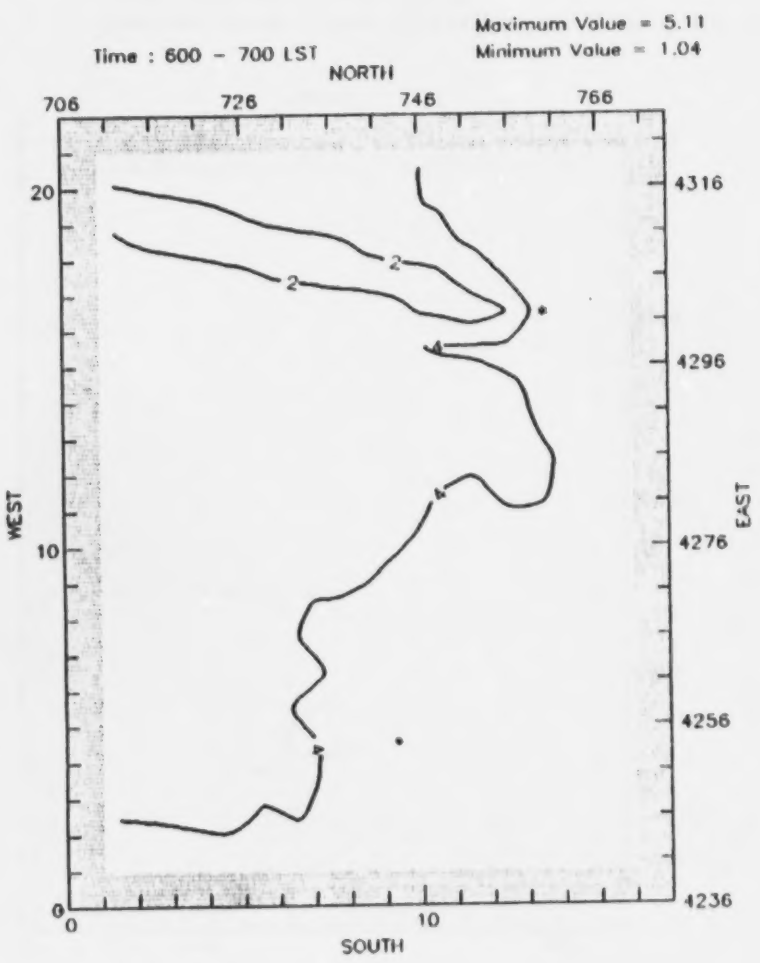
Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984

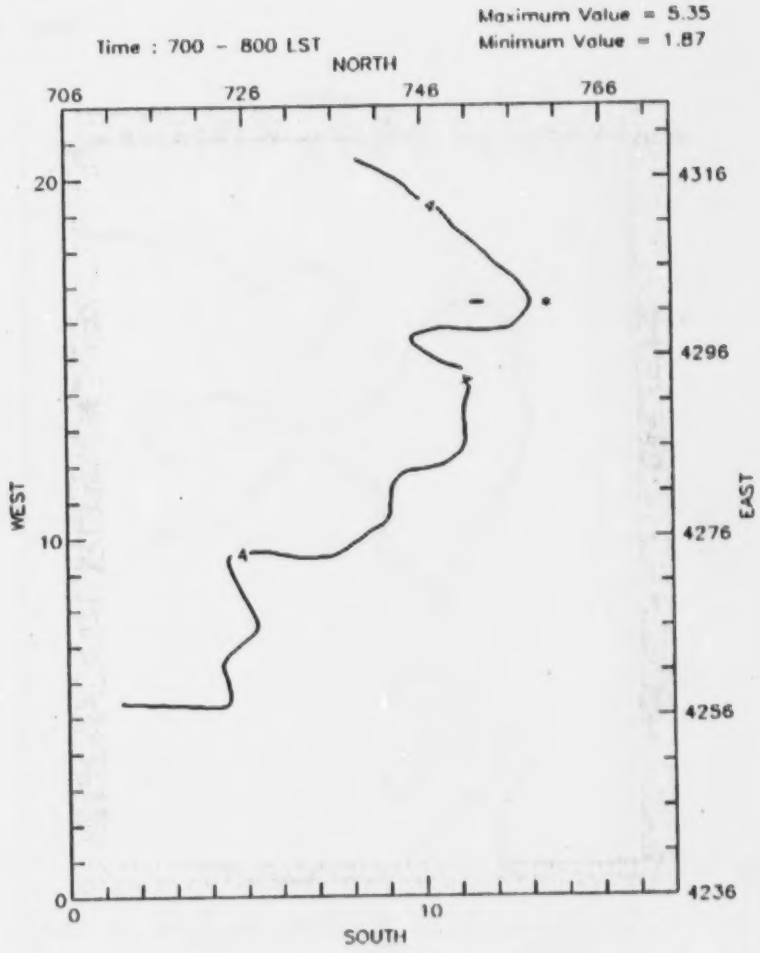


Difference in ozone concentrations (ppb) between 1995 Scenario 2 and base case for Atlanta on 4 June, 1984

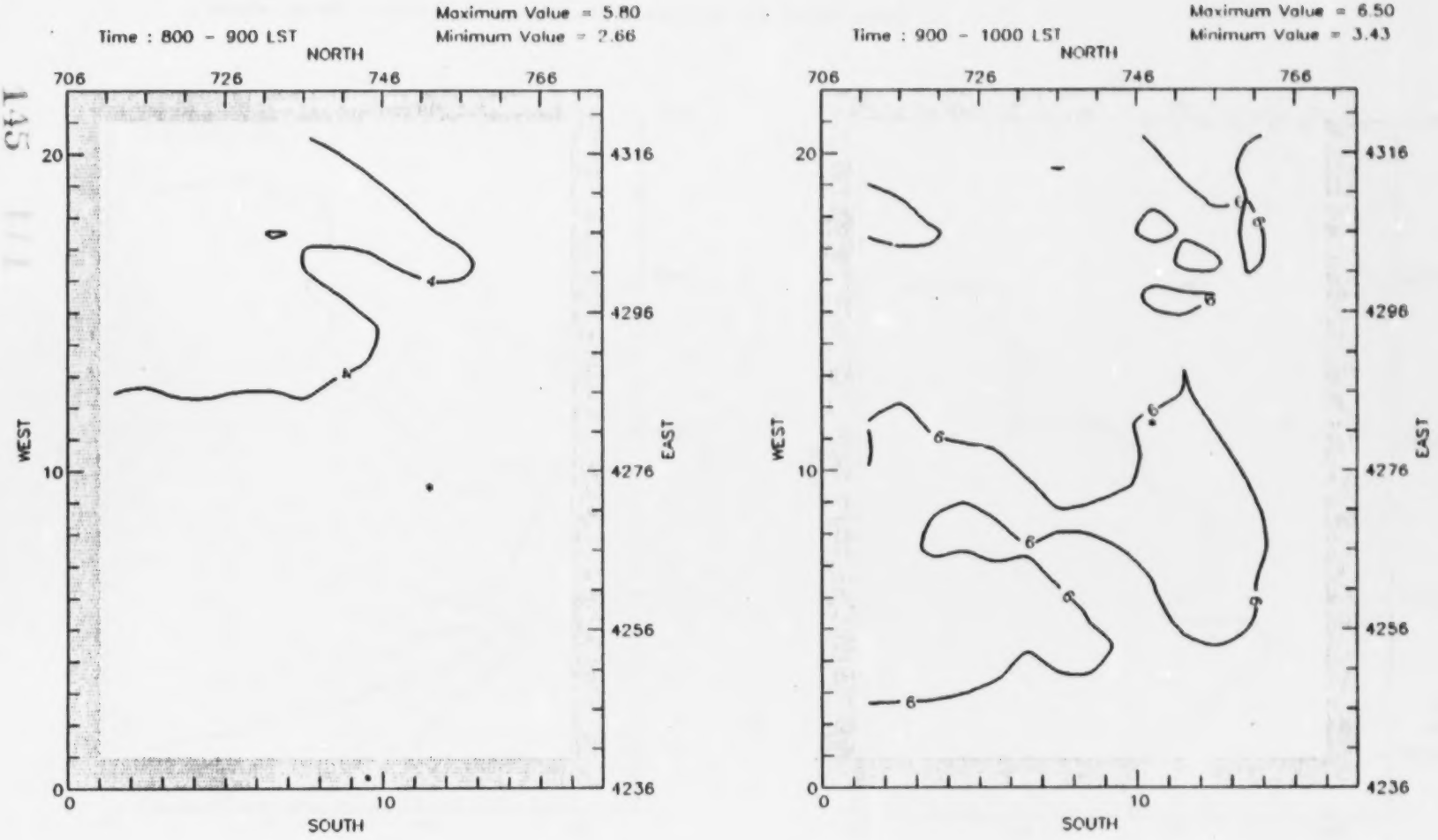
Appendix L

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR ST. LOUIS 1995 BASE CASE EMISSION SCENARIO

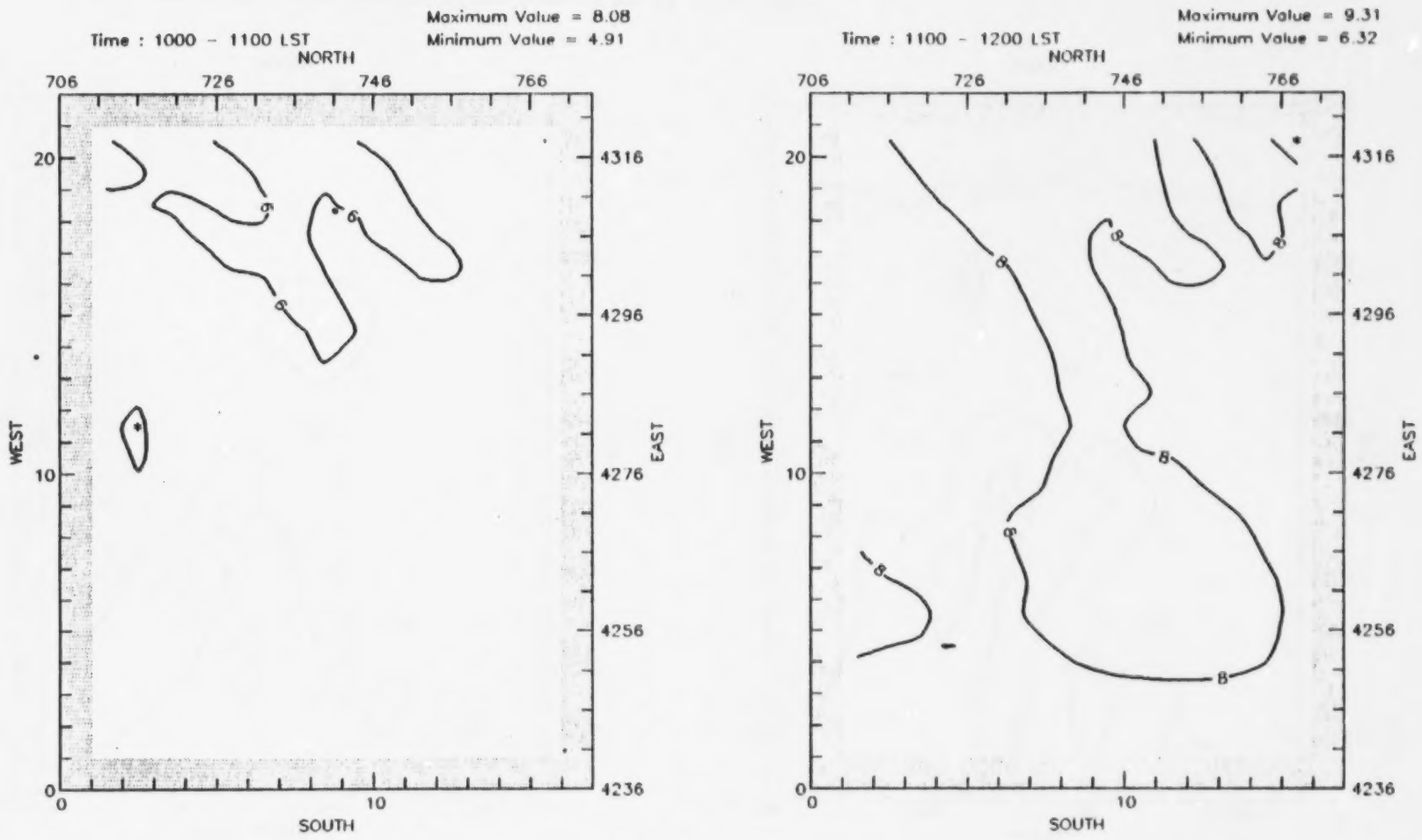




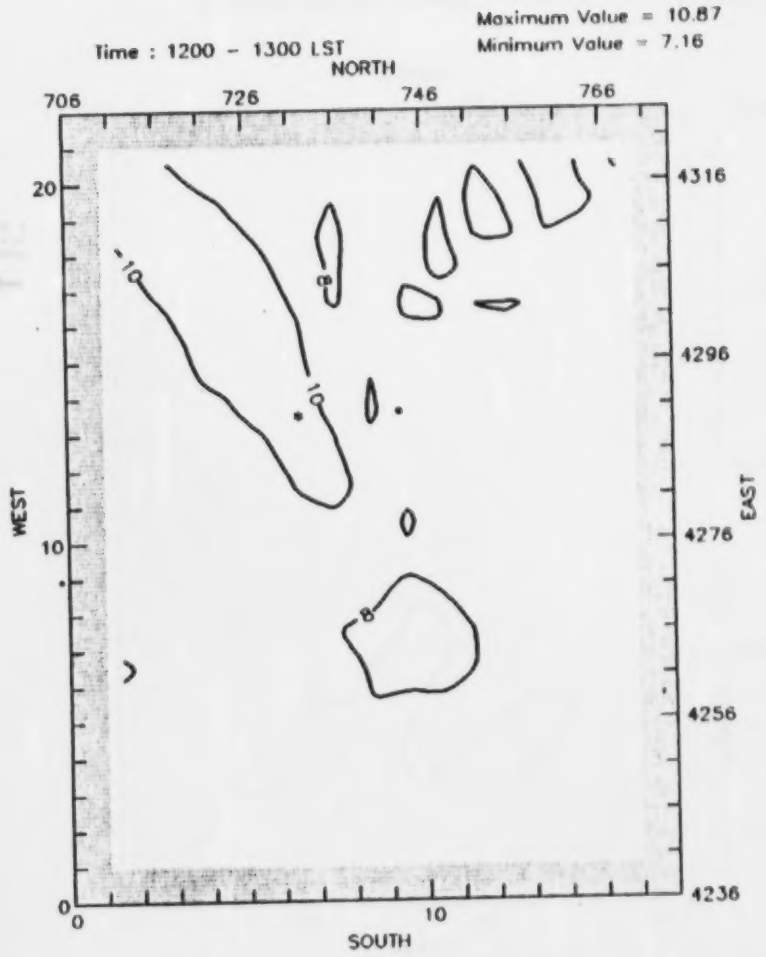
Average hourly ozone concentrations (pphm) for St. Louis 1995 base case on 13 July, 1976.

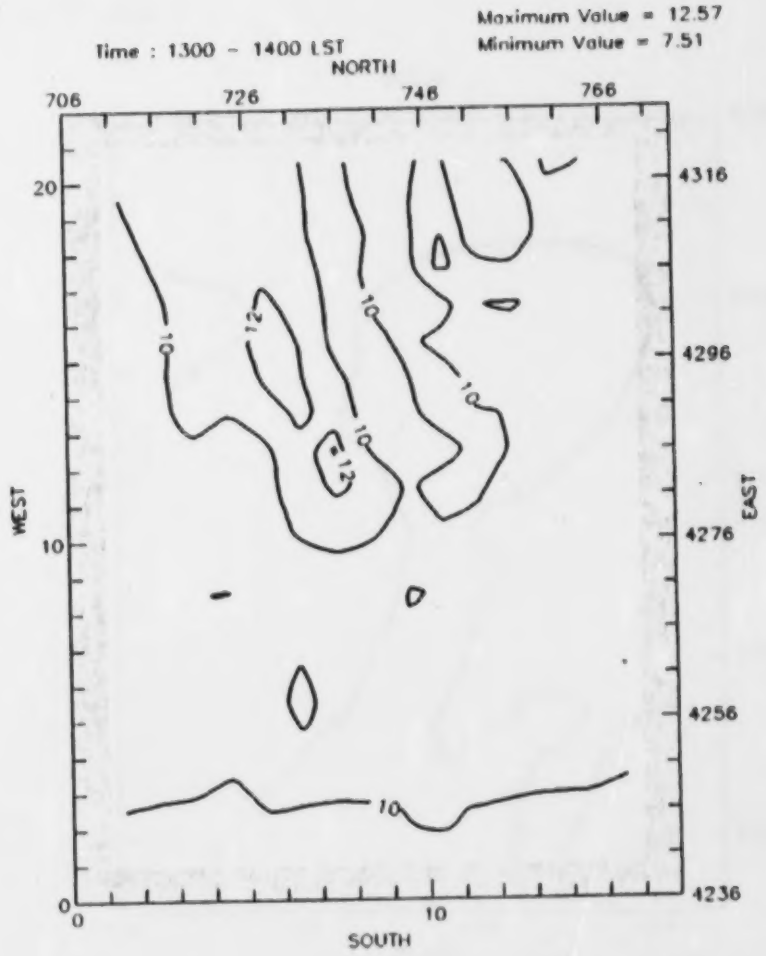


Average hourly ozone concentrations (pphm) for St. Louis 1995 base case on 13 July, 1976.

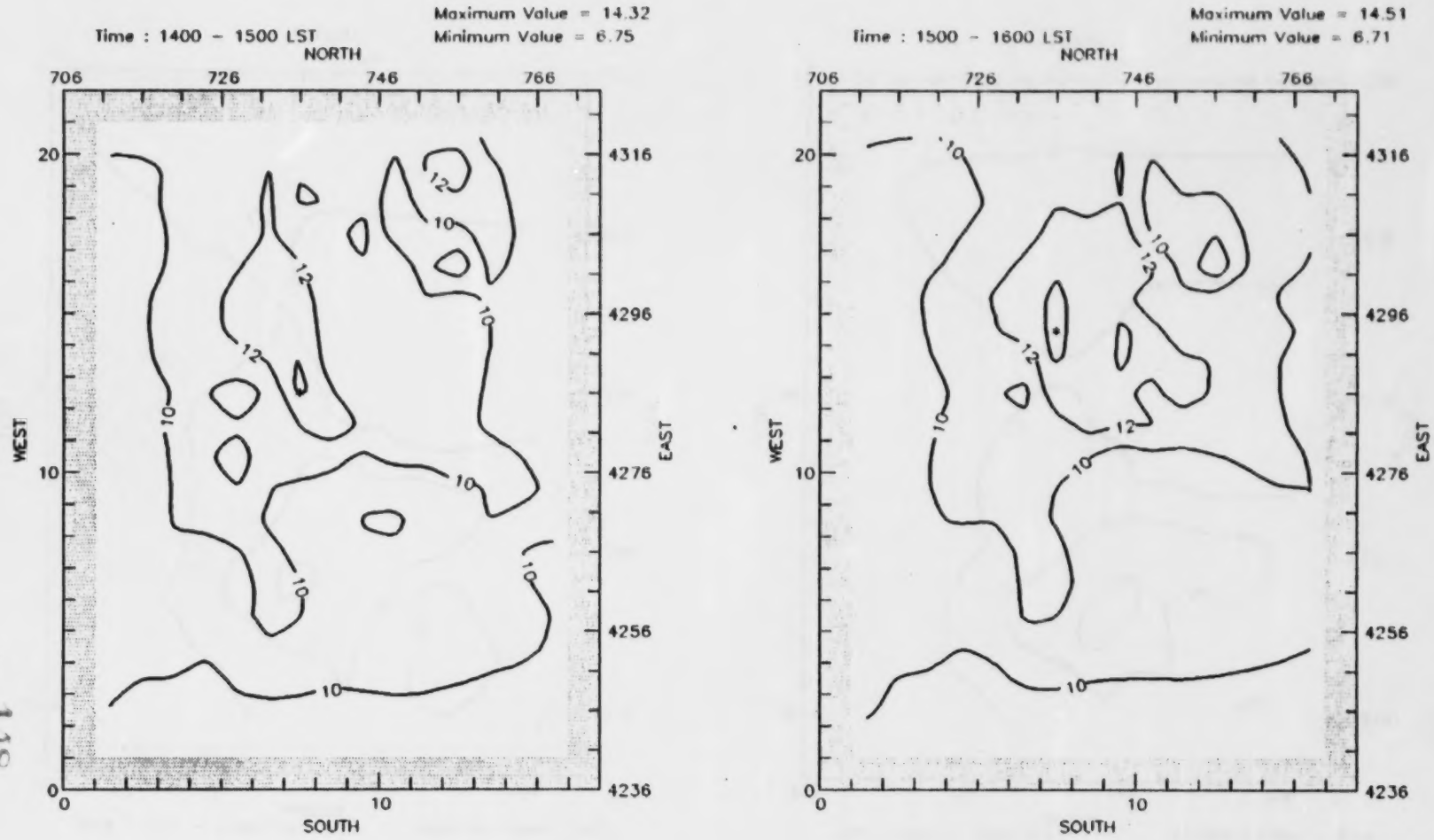


Average hourly ozone concentrations (pphm) for St. Louis 1995 base case on 13 July, 1976.

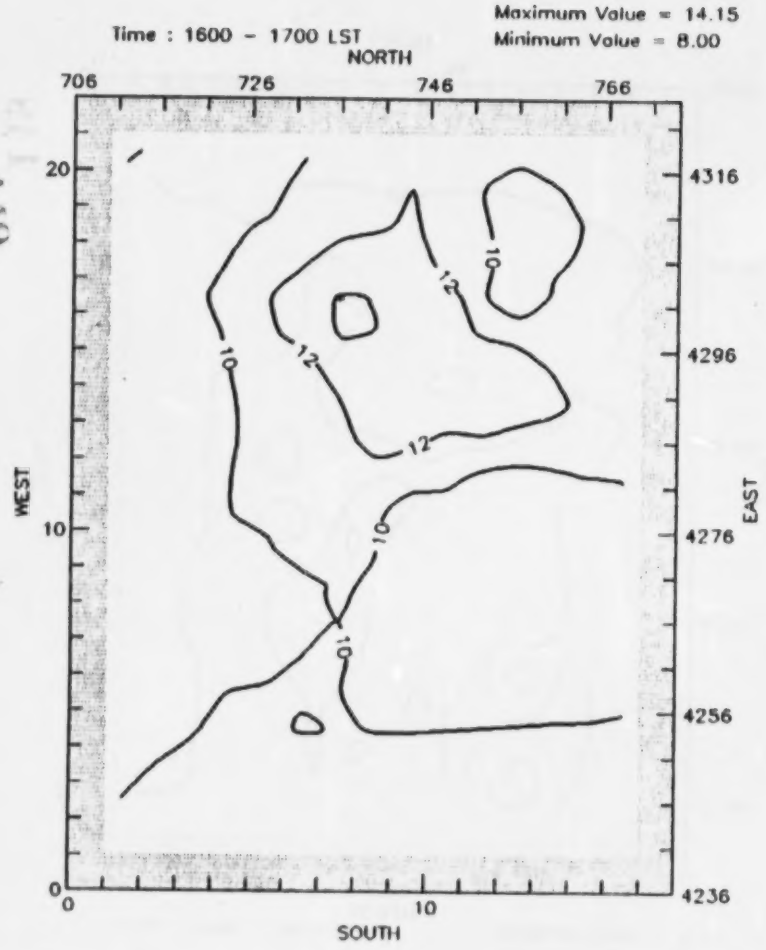


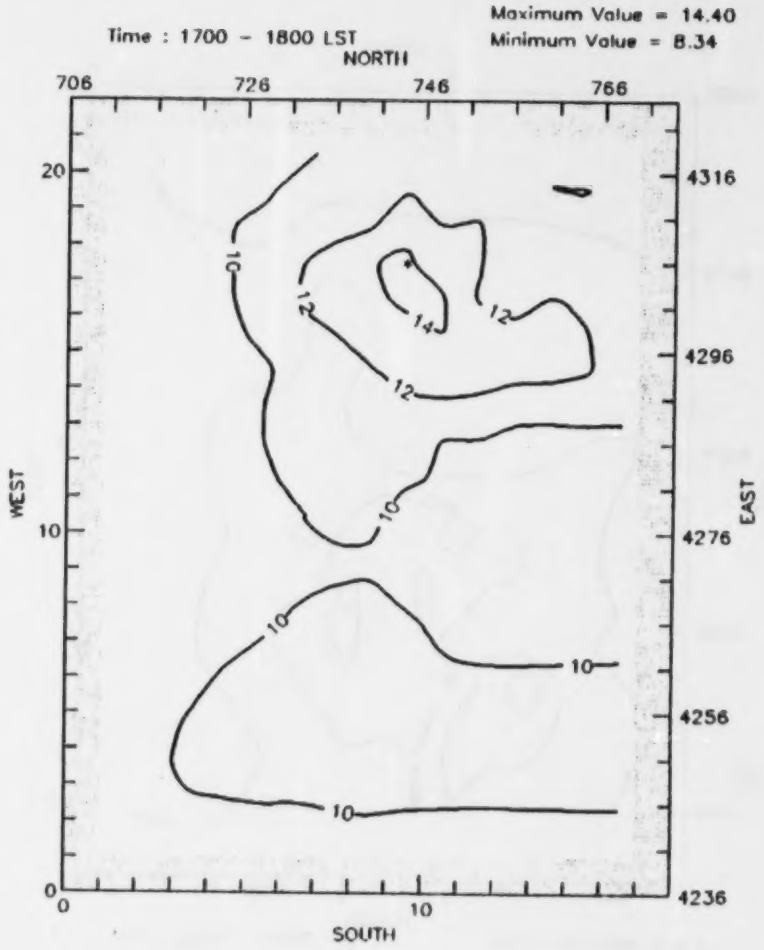


Average hourly ozone concentrations (pphm) for St. Louis 1995 base case on 13 July, 1976.

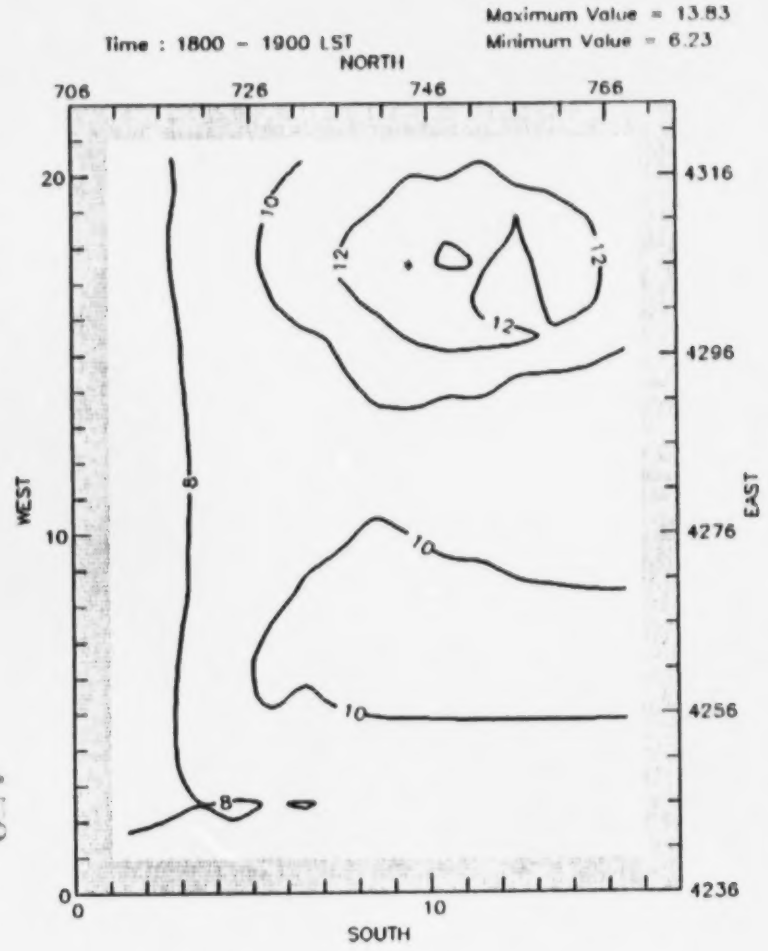


Average hourly ozone concentrations (pphm) for St. Louis 1995 base case on 13 July, 1976.





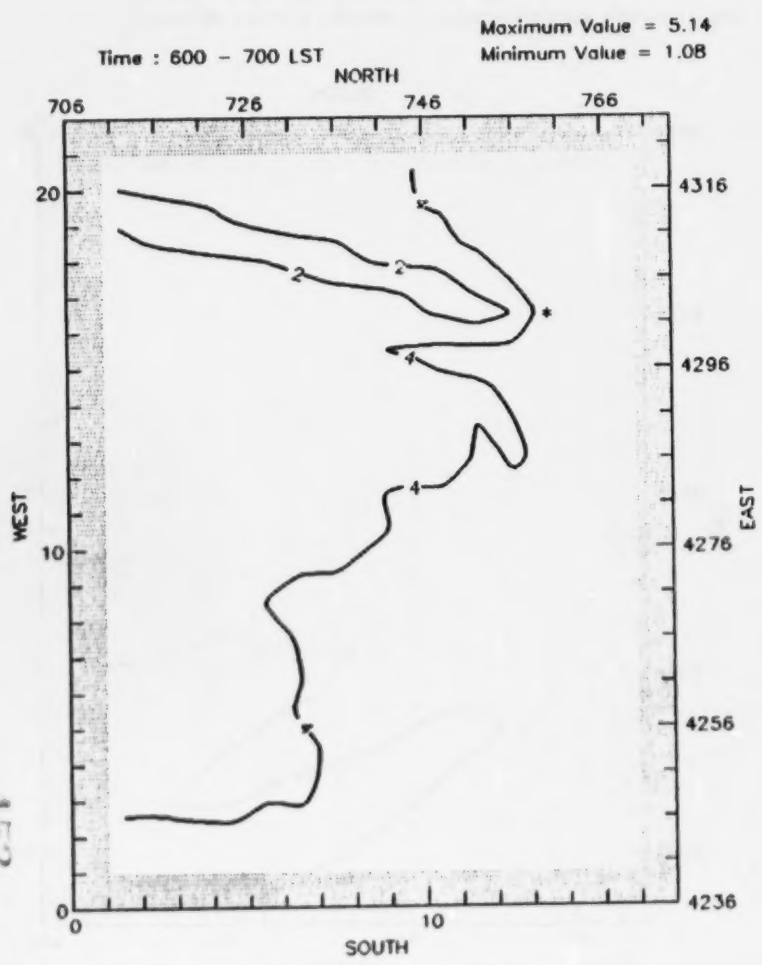
Average hourly ozone concentrations (pphm) for St. Louis 1995 base case on 13 July, 1976.

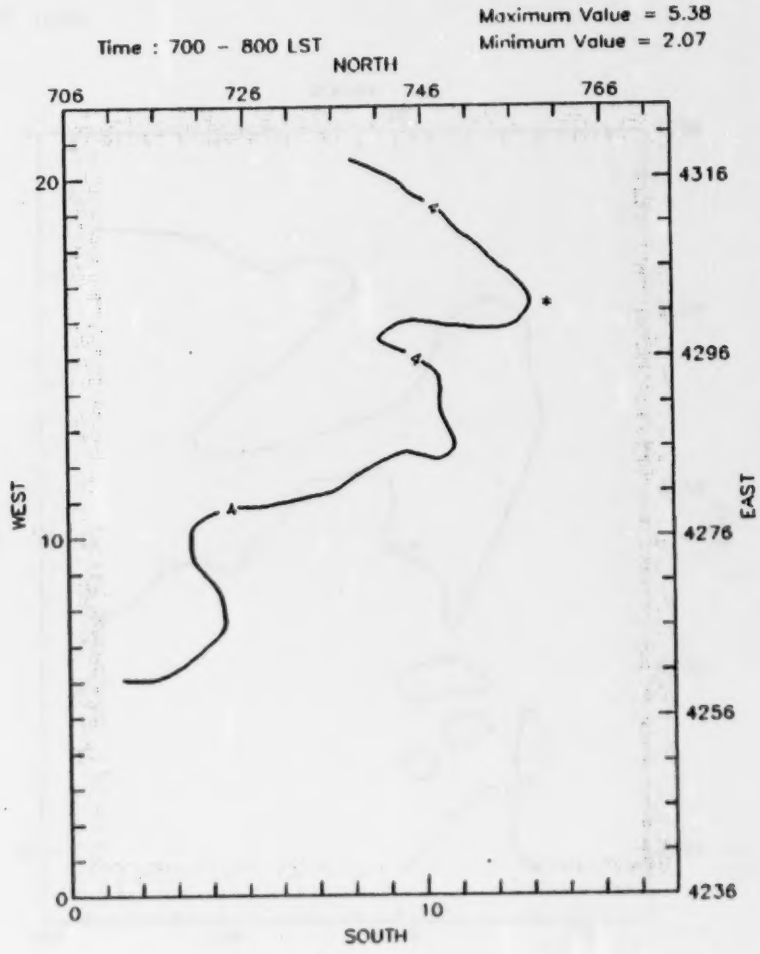


Average hourly ozone concentrations (pphm) for St. Louis 1995 base case on 13 July, 1976.

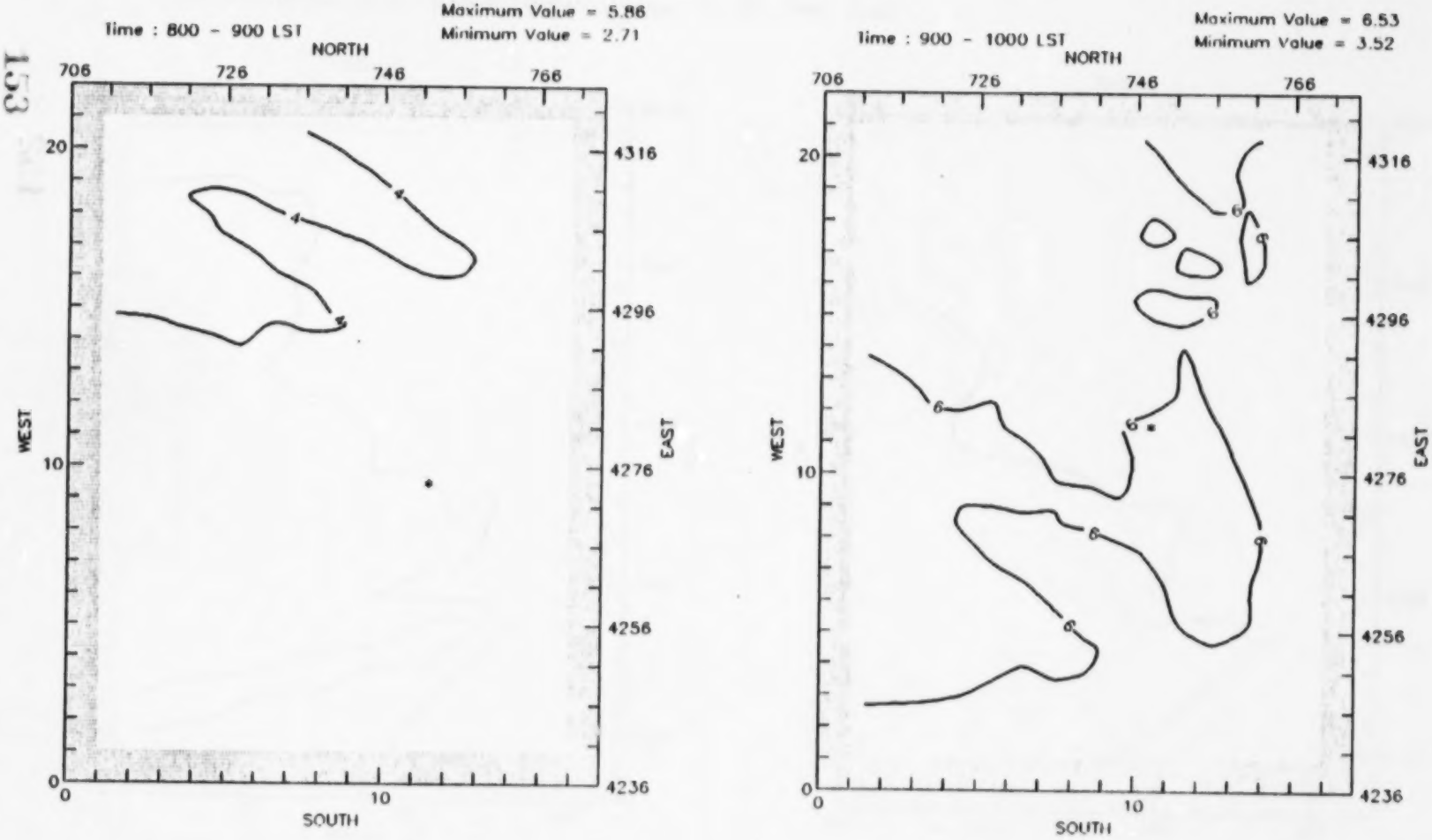
Appendix M

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR ST. LOUIS 1995 EMISSION SCENARIO #1 (24 PERCENT REDUCTION IN VOC EMISSIONS AND 25 PERCENT REDUCTION IN NO_x EMISSIONS)

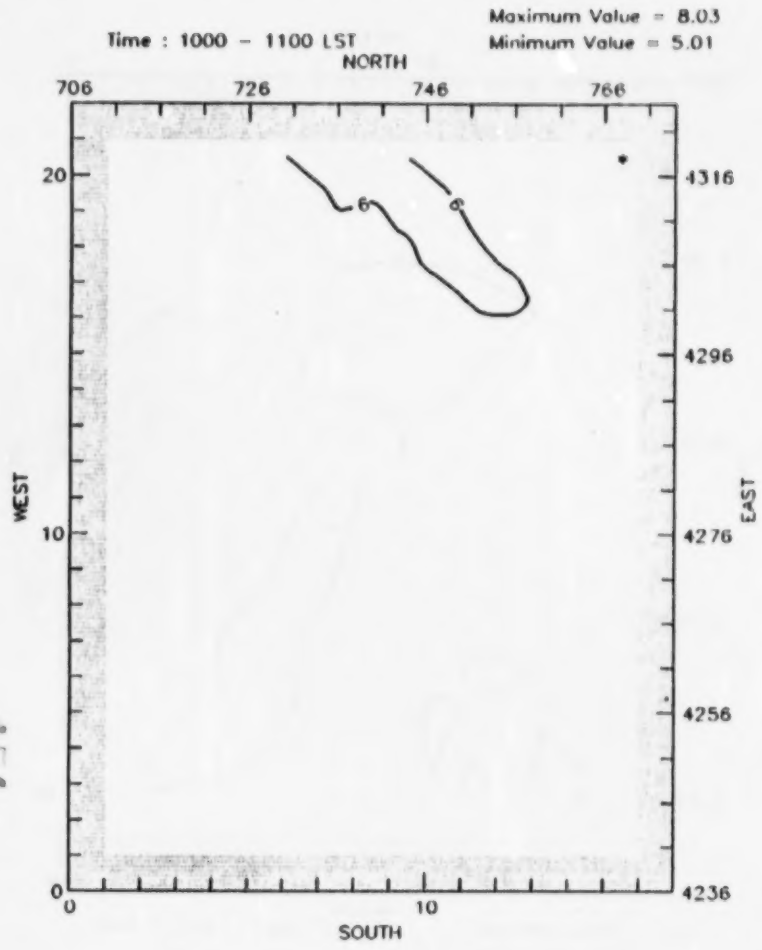


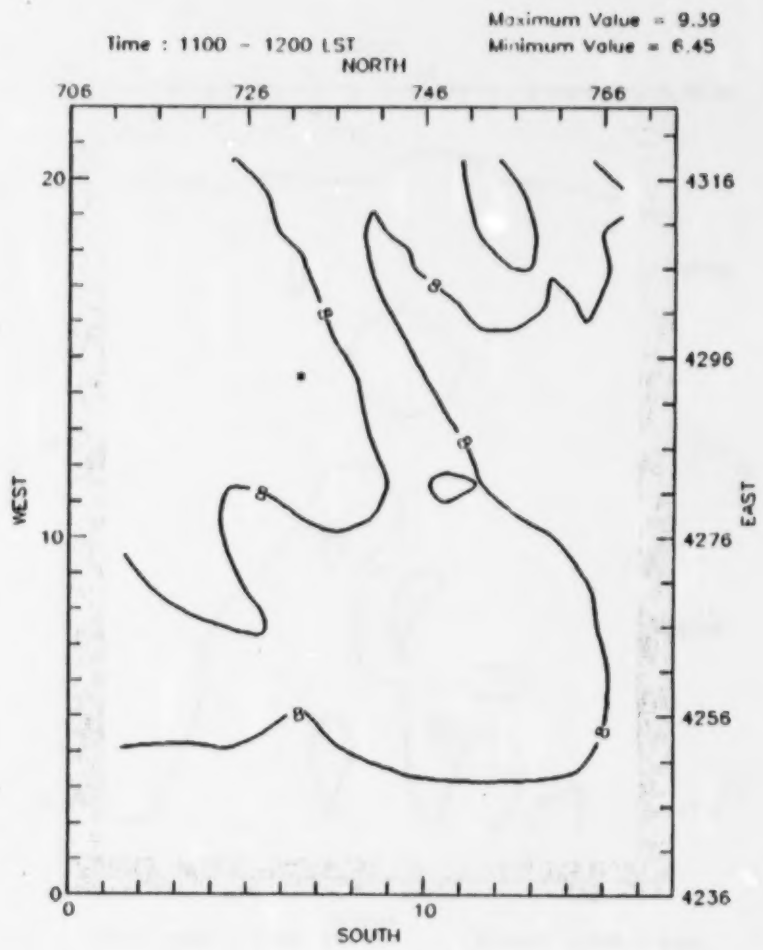


Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #1 on 13 July, 1976.

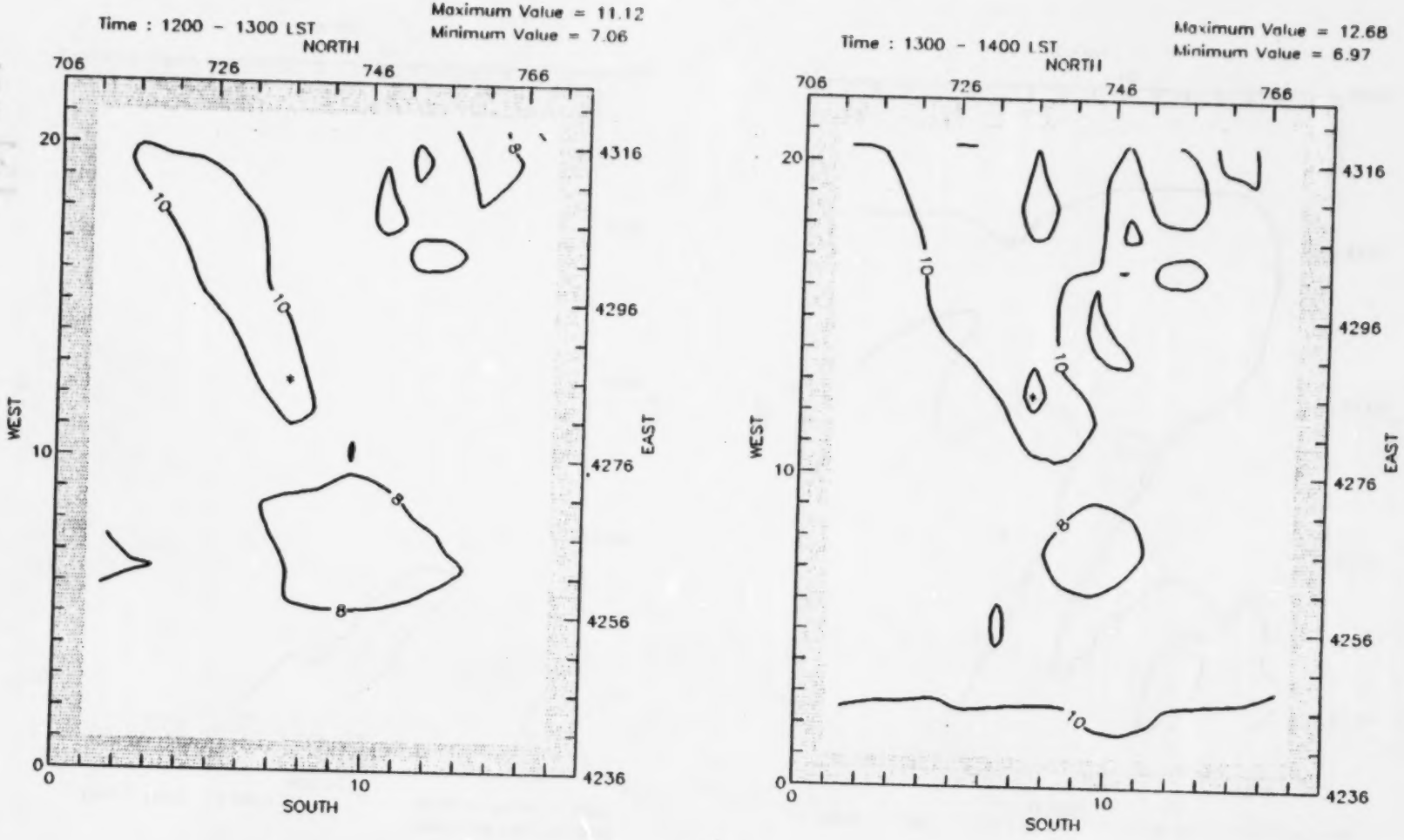


Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #1 on 13 July, 1976.

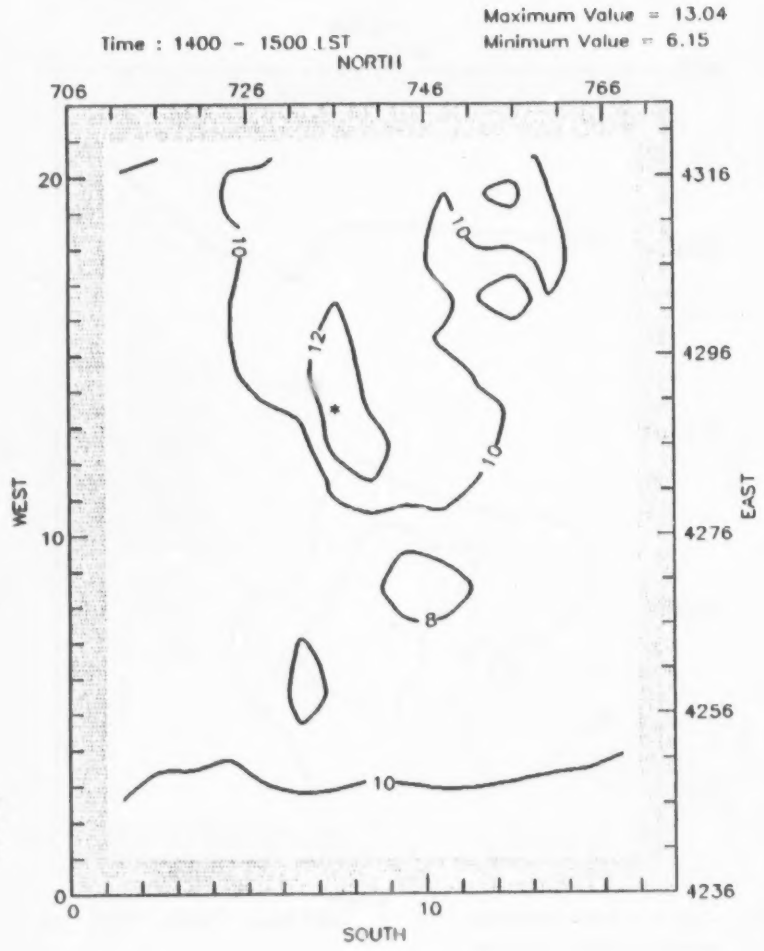


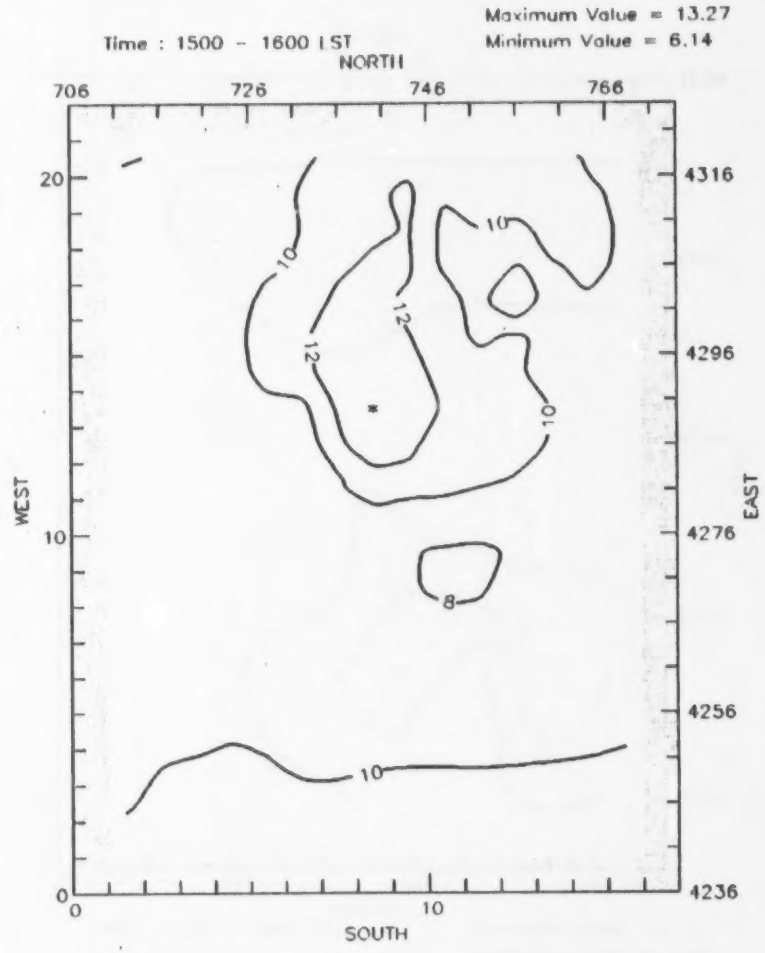


Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #1 on 13 July, 1976.

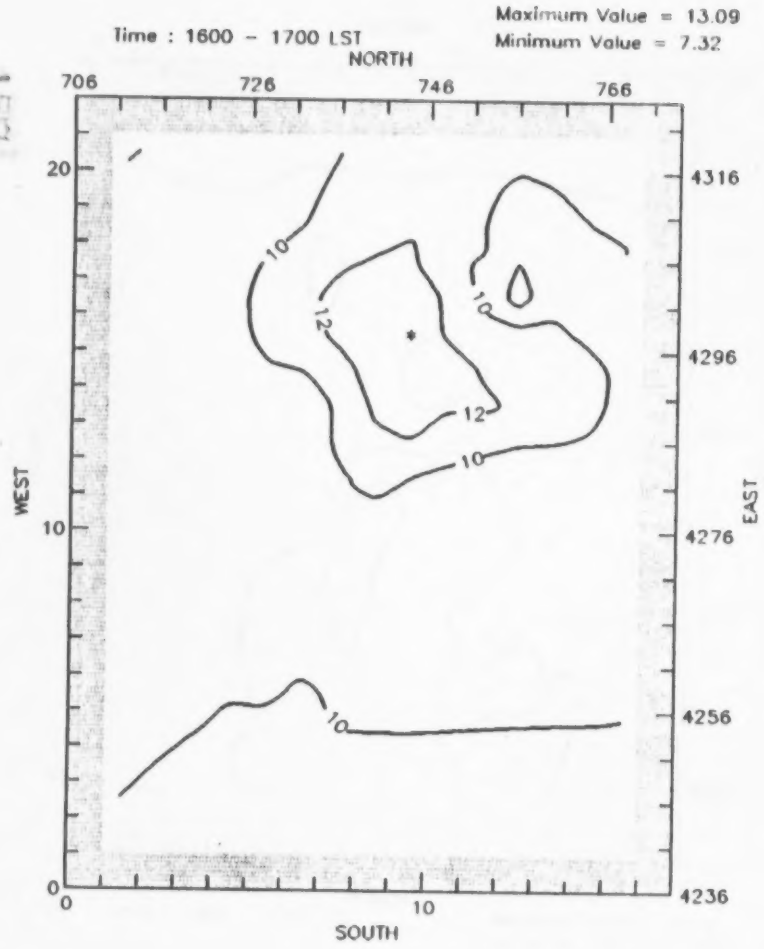


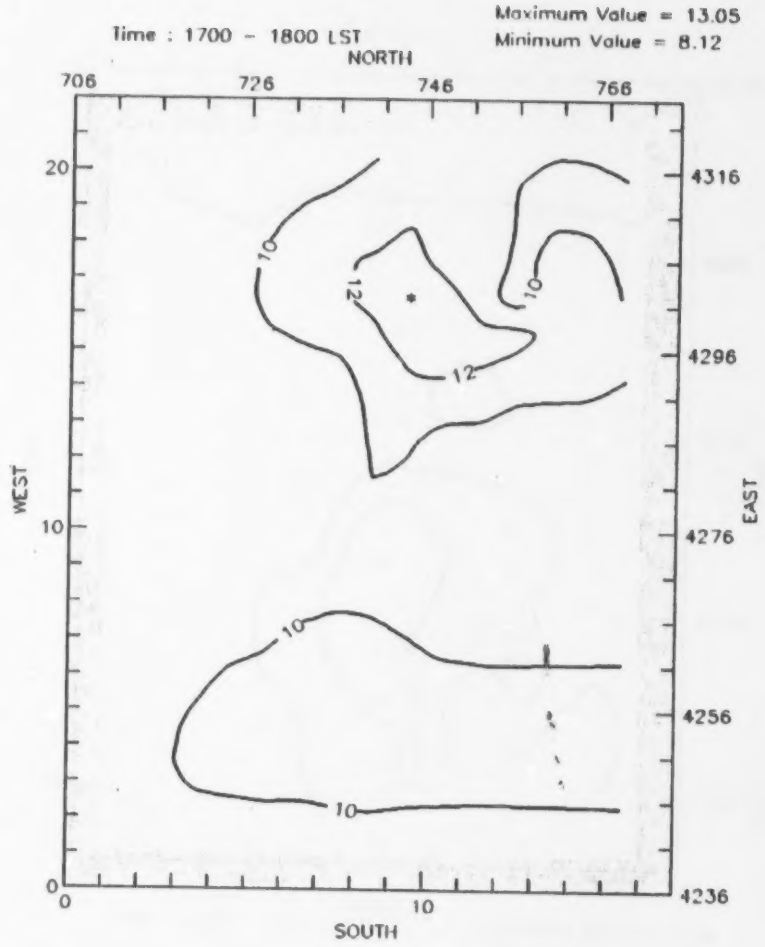
Average hourly ozone concentrations (pphm) for St. Louis 1995 Scenario #1 on 13 July, 1976.



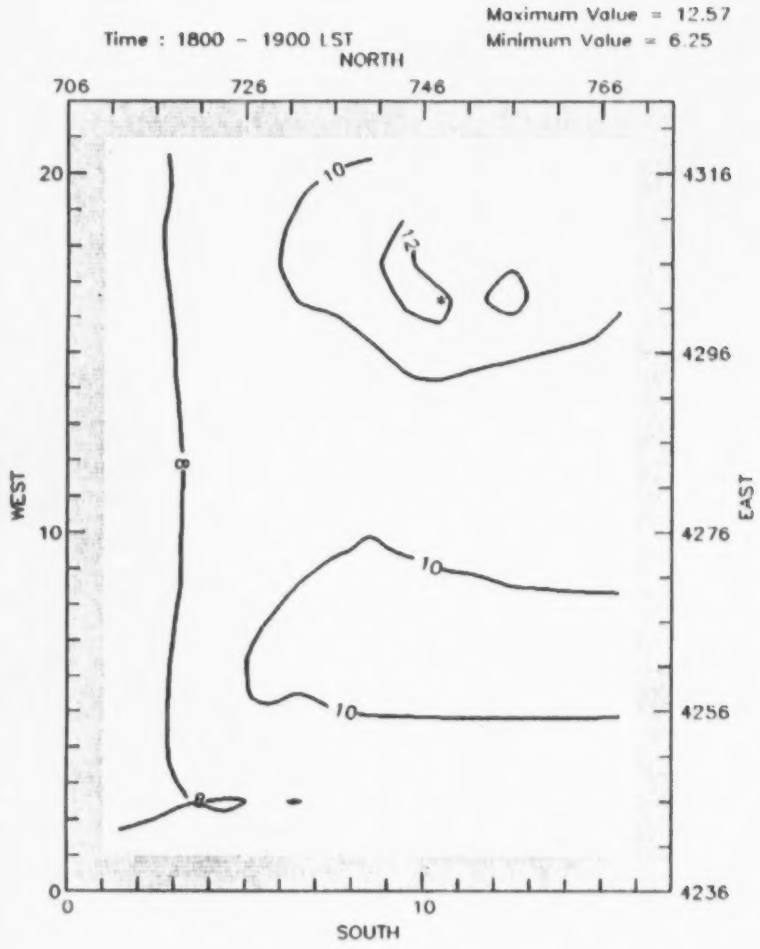


Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #1 on 13 July, 1976.





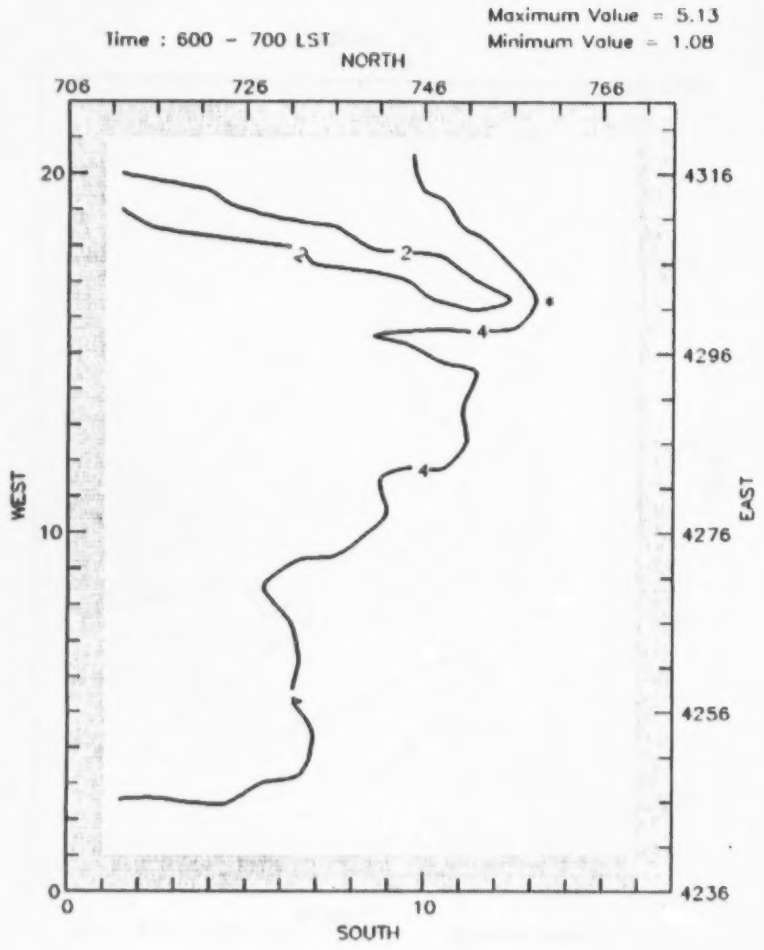
Average hourly ozone concentrations (pphm) for St. Louis 1995 Scenario #1 on 13 July, 1976.

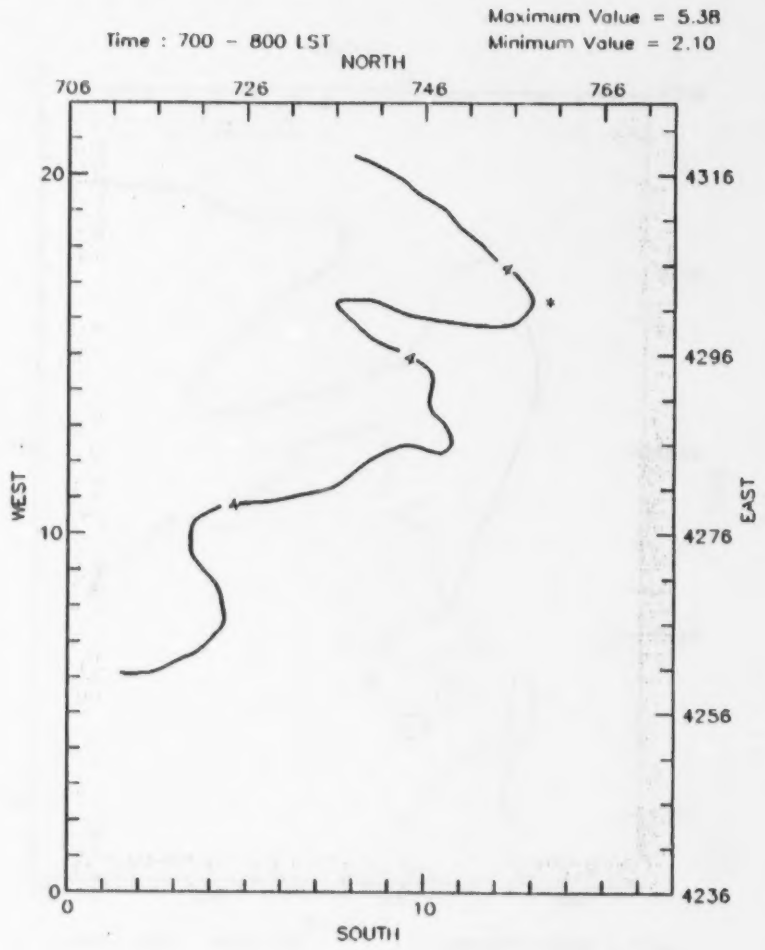


Average hourly ozone concentrations (pphm) for St. Louis 1995 Scenario #1 on 13 July, 1976.

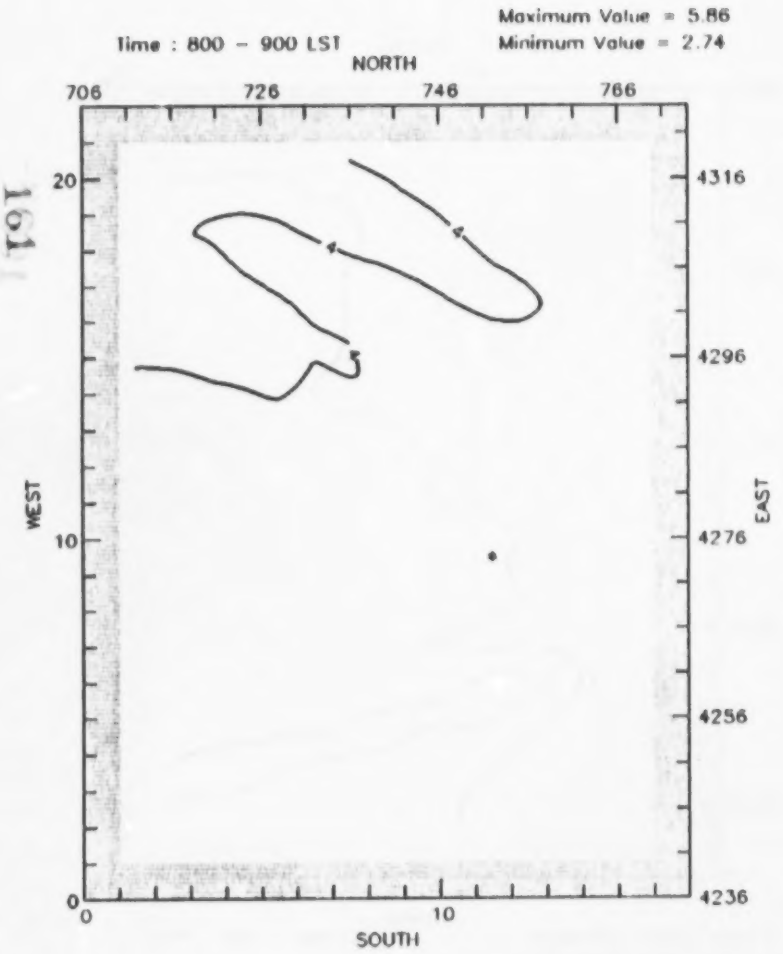
Appendix N

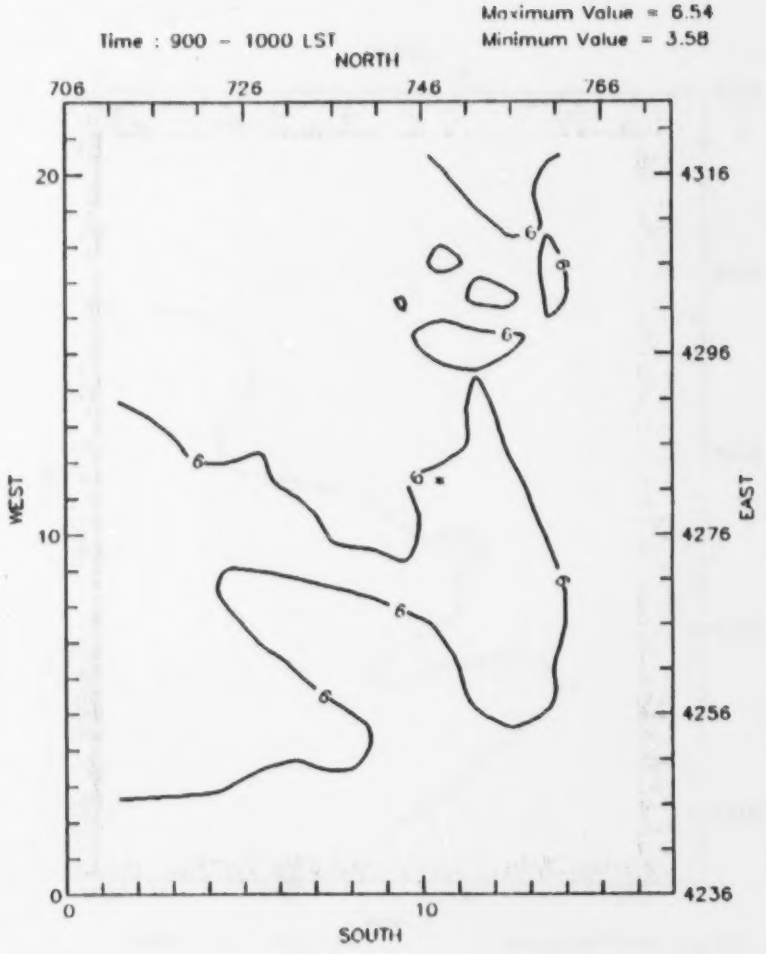
PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR ST. LOUIS 1995 EMISSION SCENARIO #2 (24 PERCENT REDUCTION IN VOC EMISSIONS AND 38 PERCENT REDUCTION IN NO_x EMISSIONS)



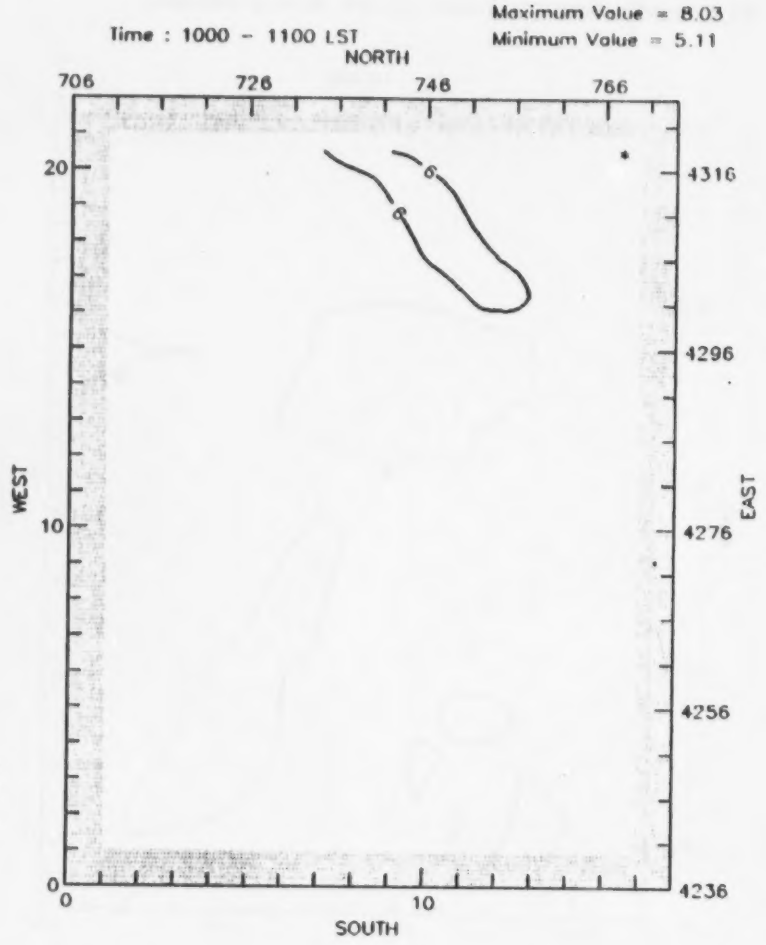


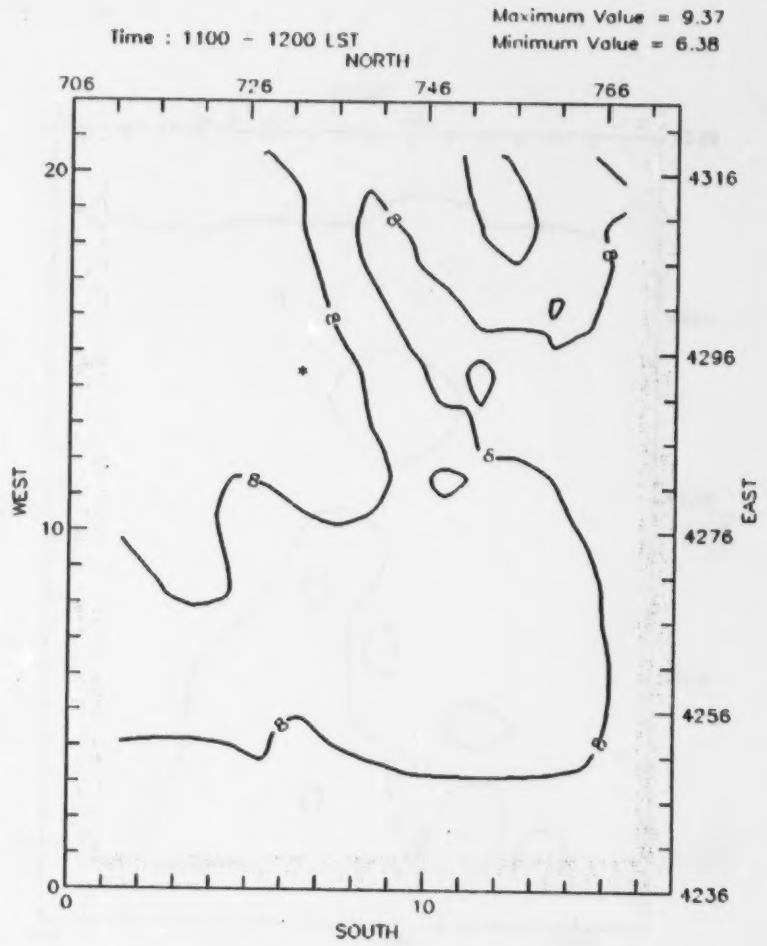
Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #2 on 13 July, 1976.



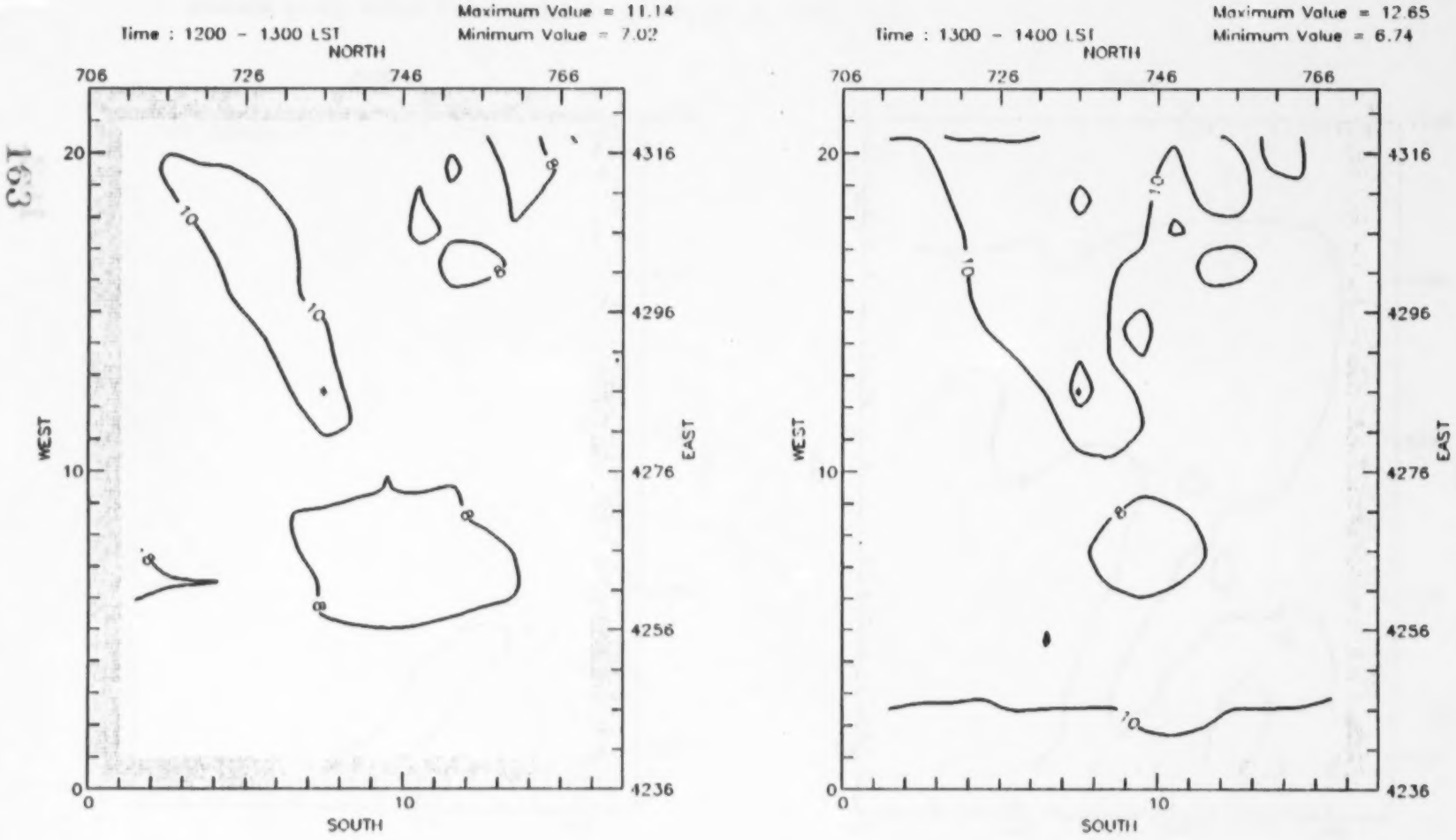


Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #2 on 13 July, 1976.

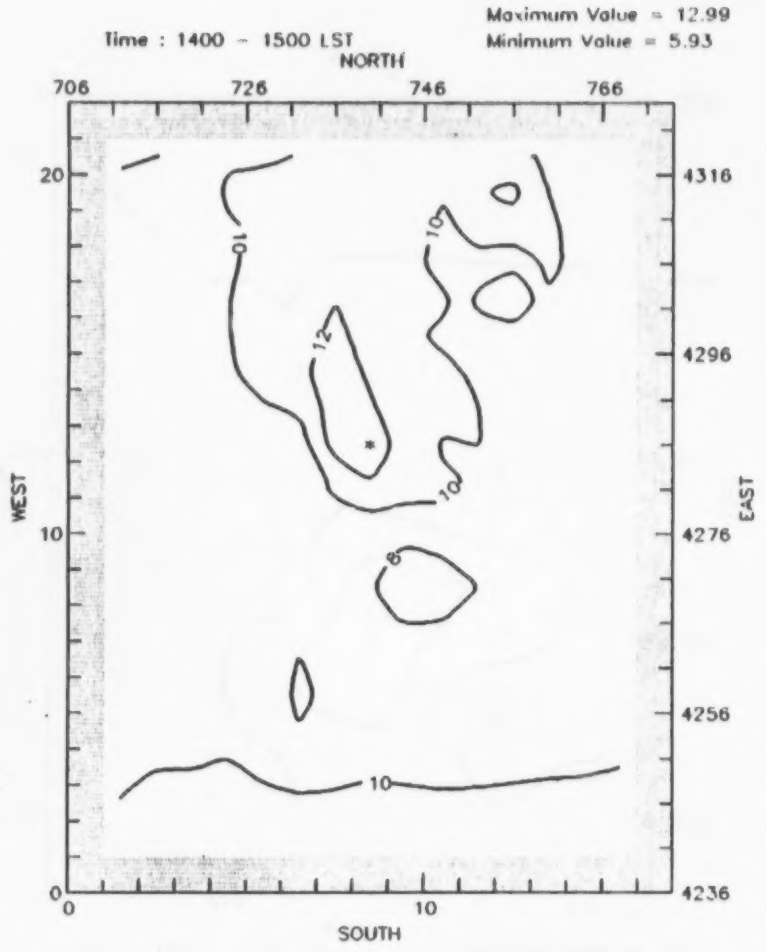


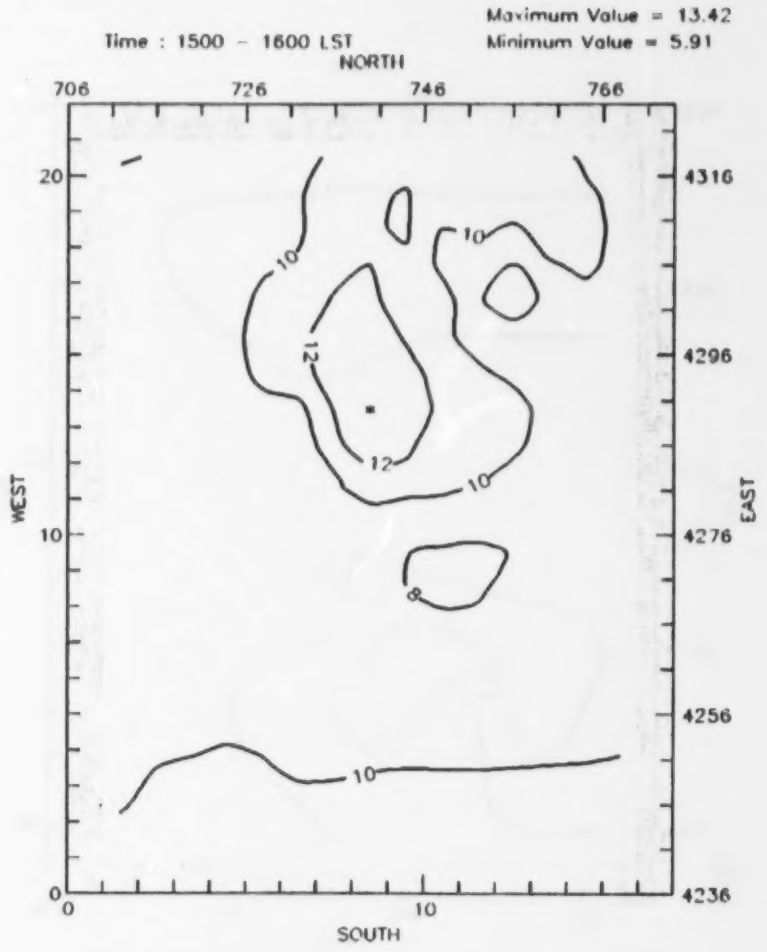


Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #2 on 13 July, 1976.

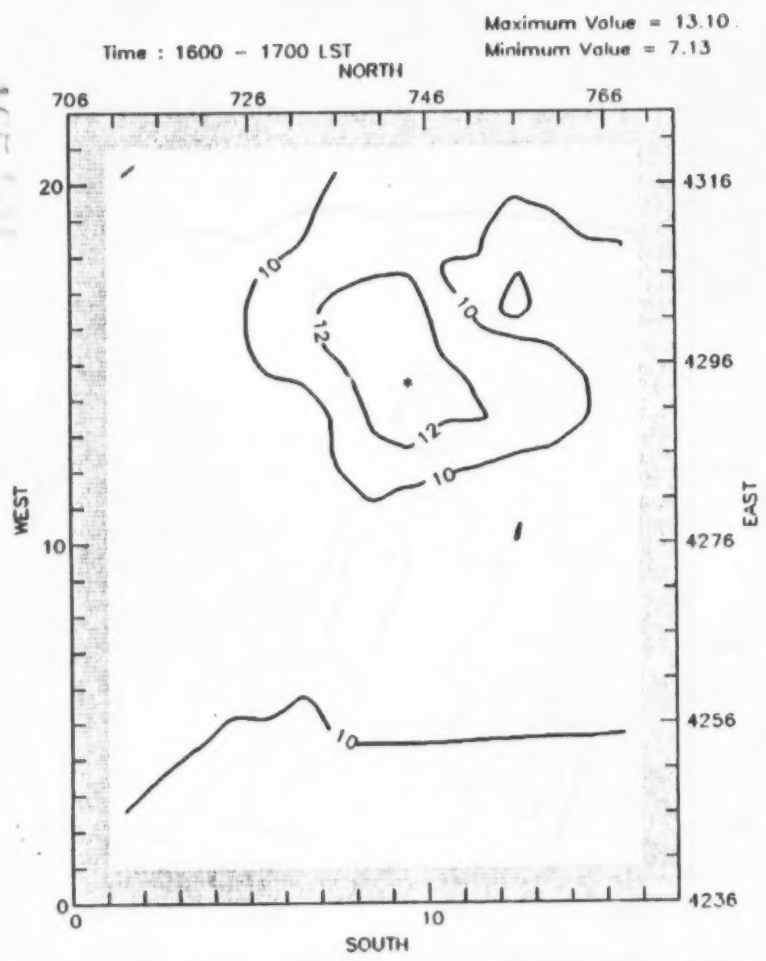


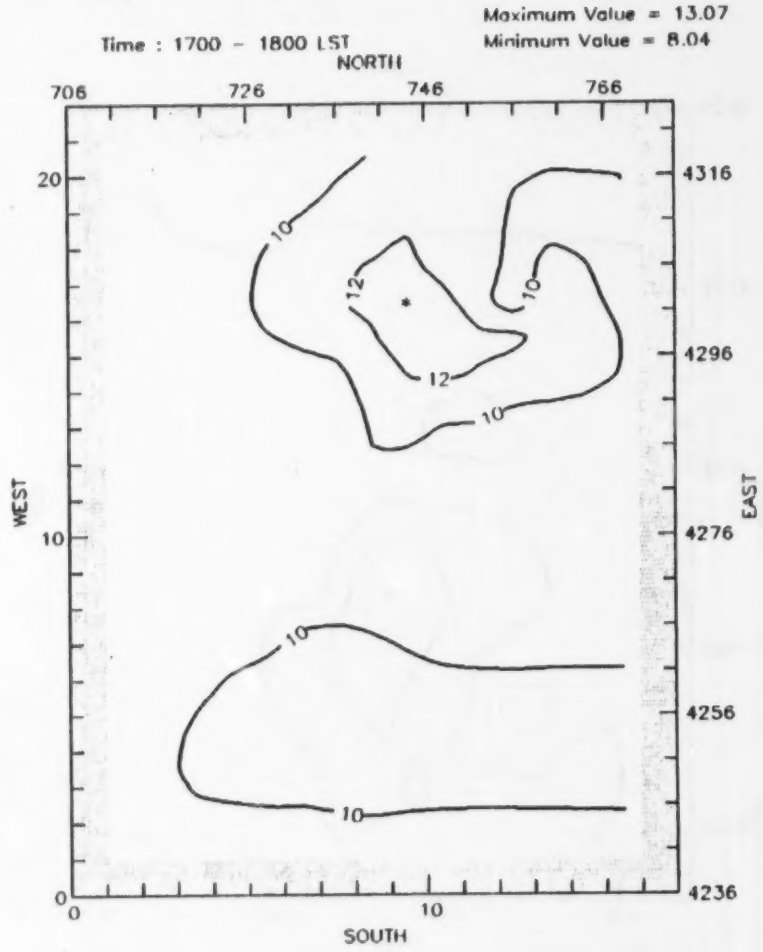
Average hourly ozone concentrations (pphm) for St. Louis 1995 Scenario #2 on 13 July, 1976.



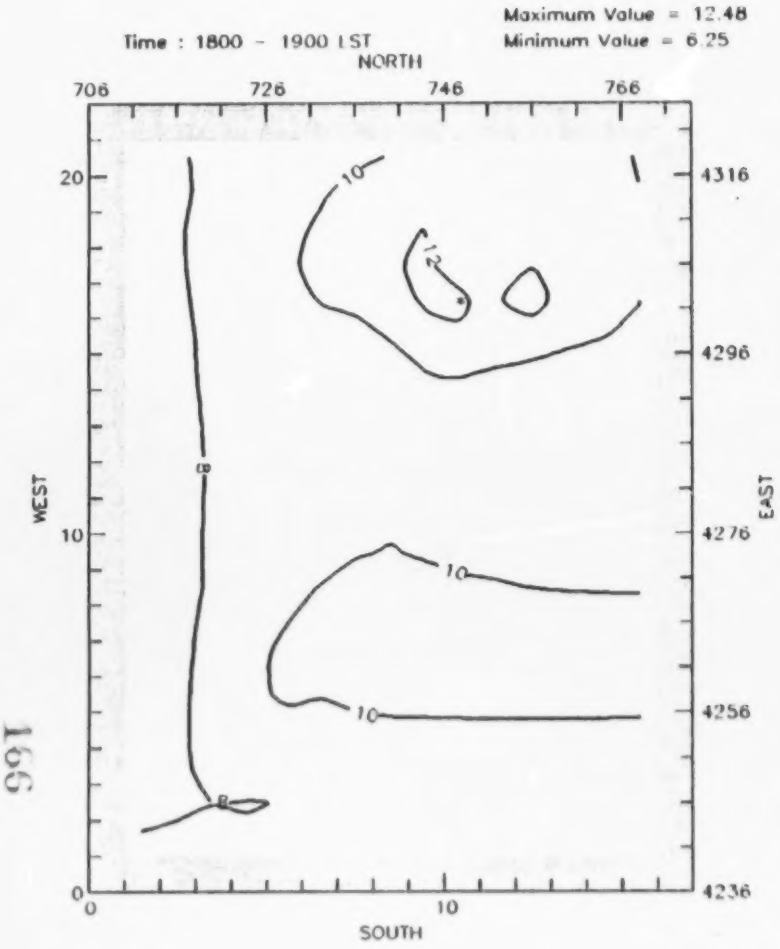


Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #2 on 13 July, 1976.





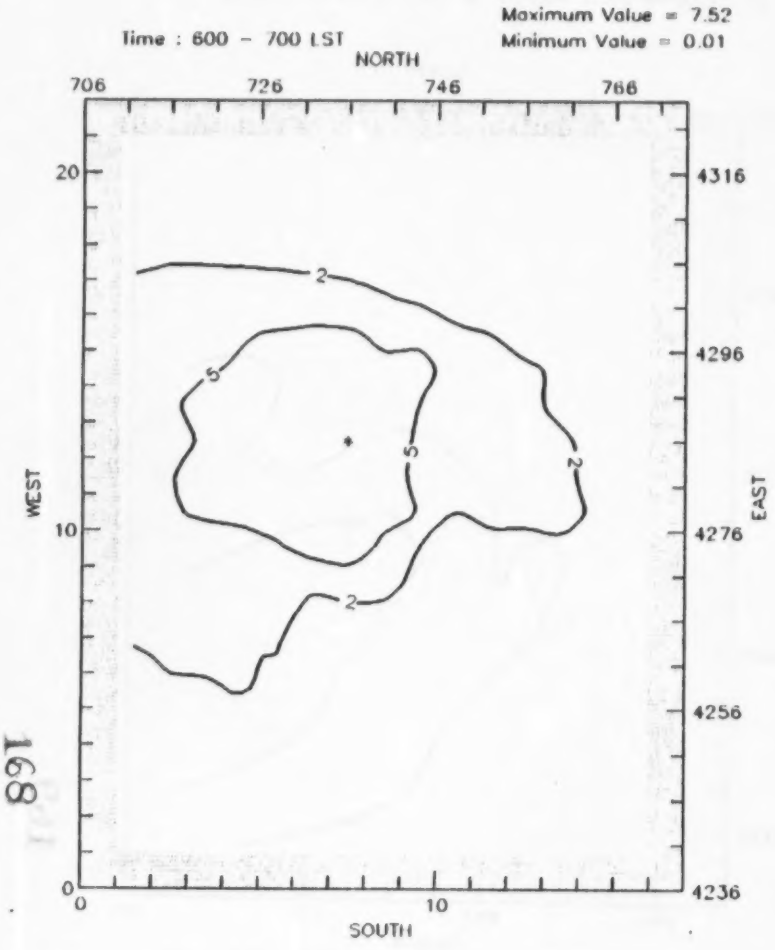
Average hourly ozone concentrations (pphm) for St. Louis 1995
Scenario #2 on 13 July, 1976.

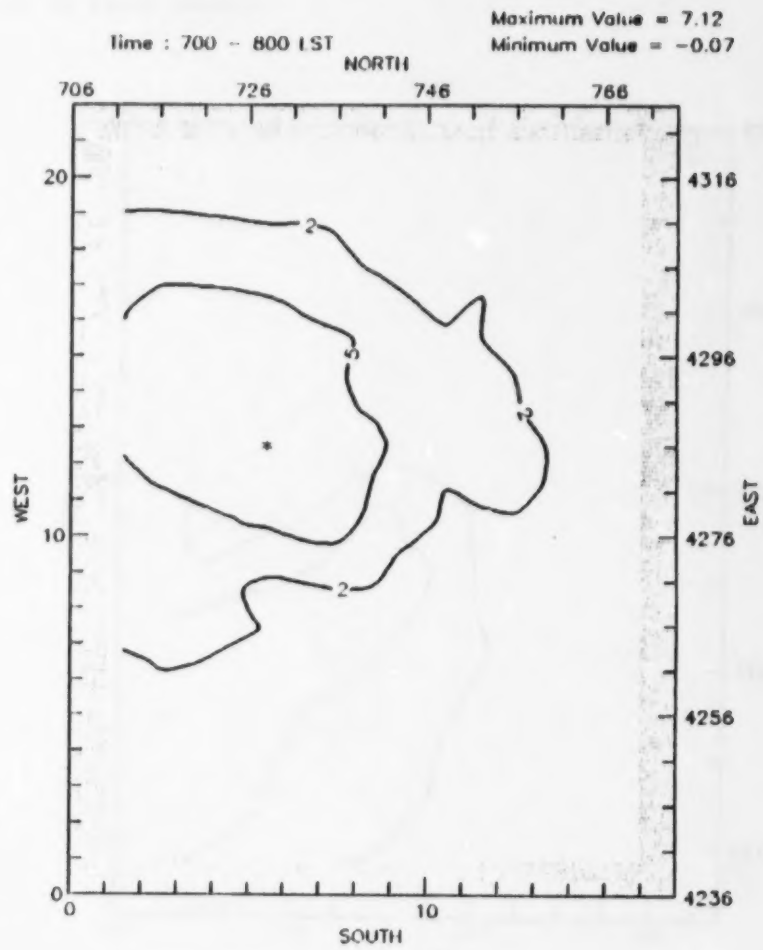


Average hourly ozone concentrations (pphm) for St. Louis 1995 Scenario #2 on 13 July, 1976.

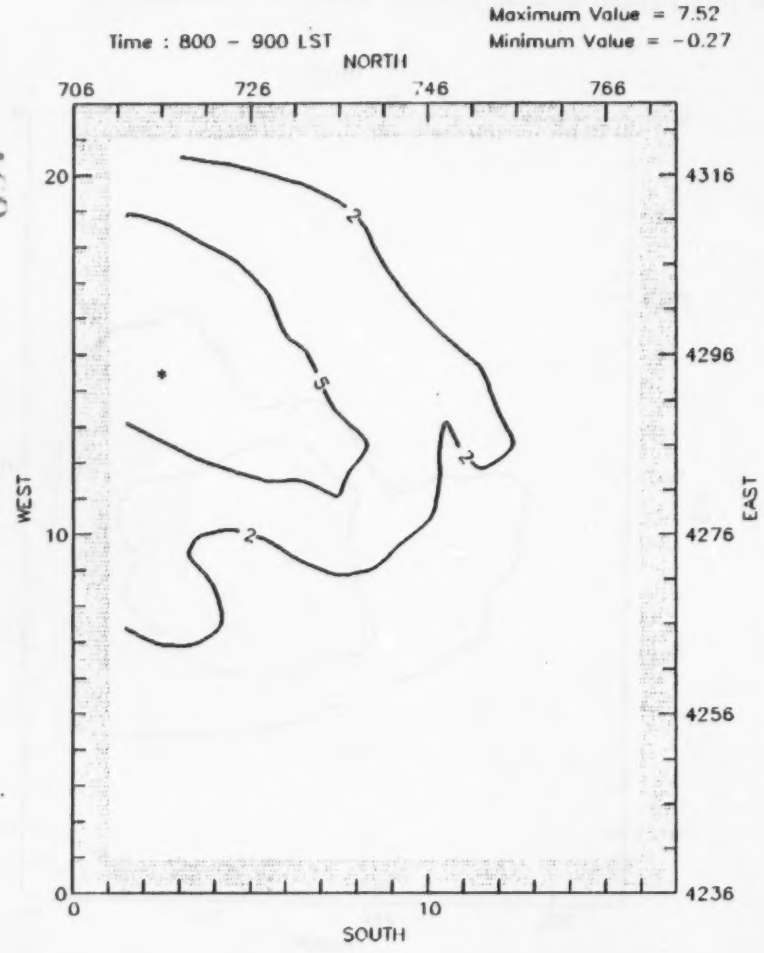
Appendix O

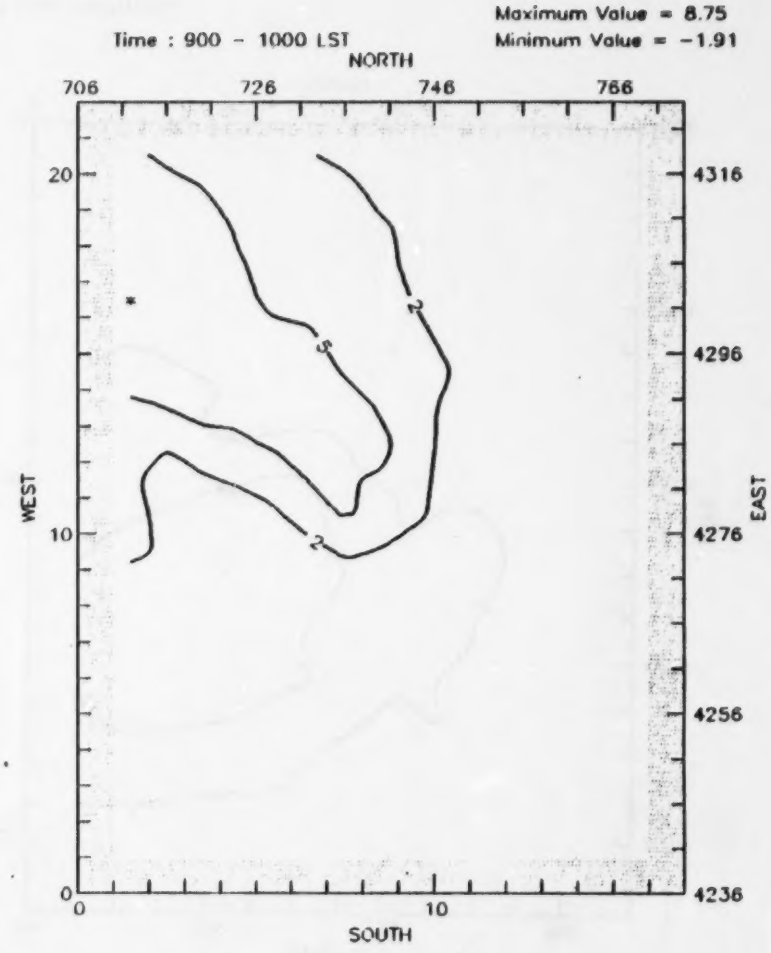
DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb)
BETWEEN ST. LOUIS 1995 SCENARIO #1 AND BASE CASE
EMISSION SCENARIO



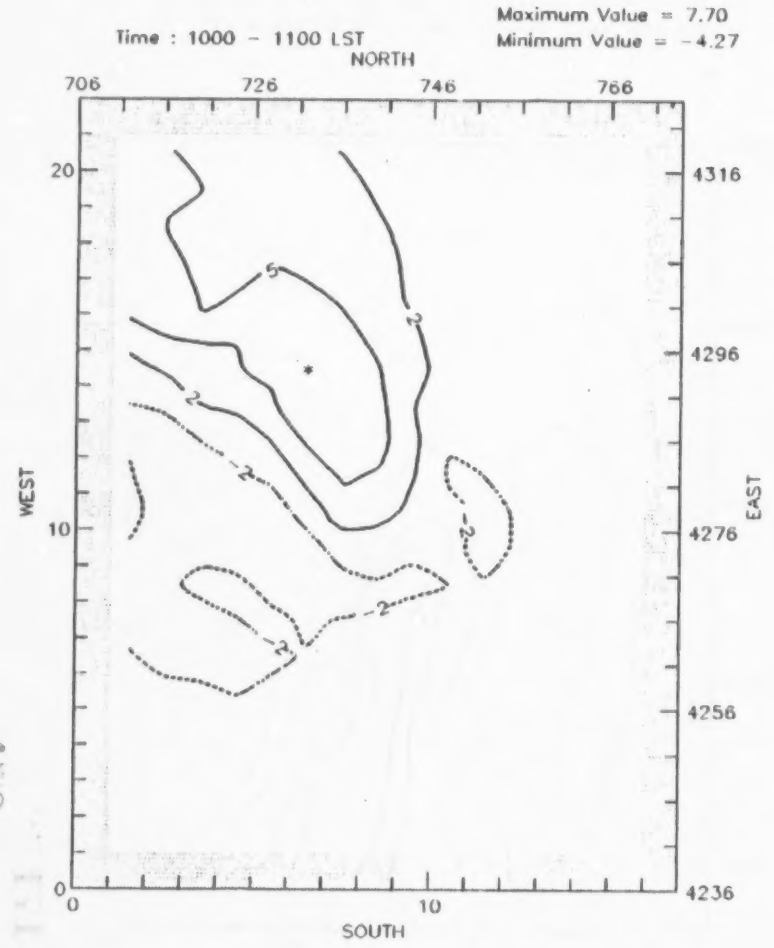


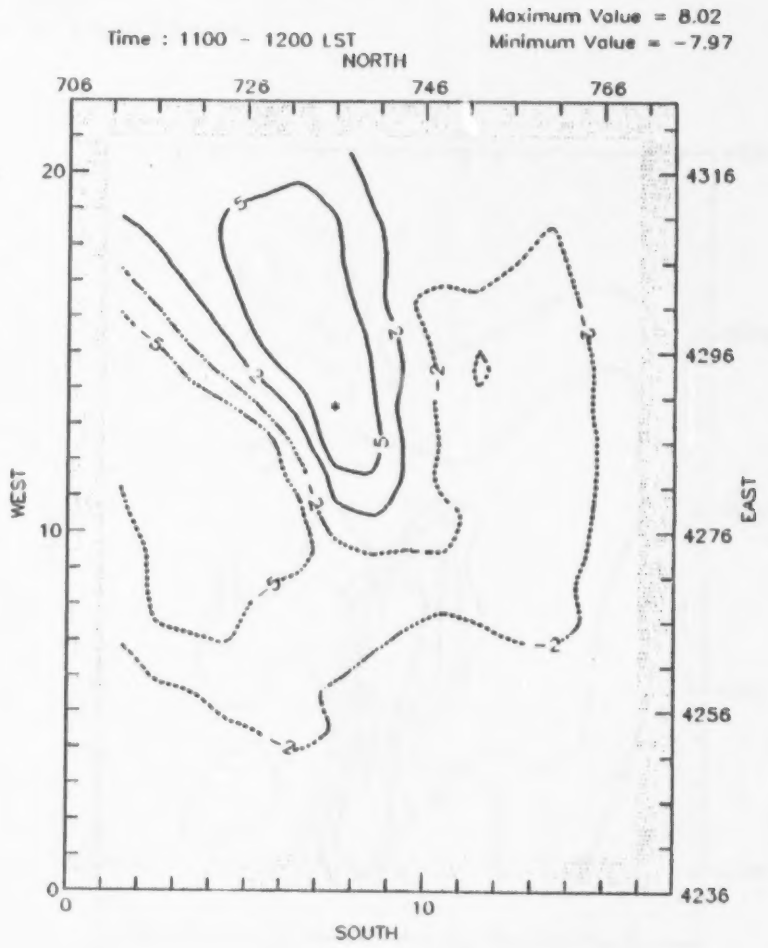
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #1 and 1995 base case on 13 July, 1976.





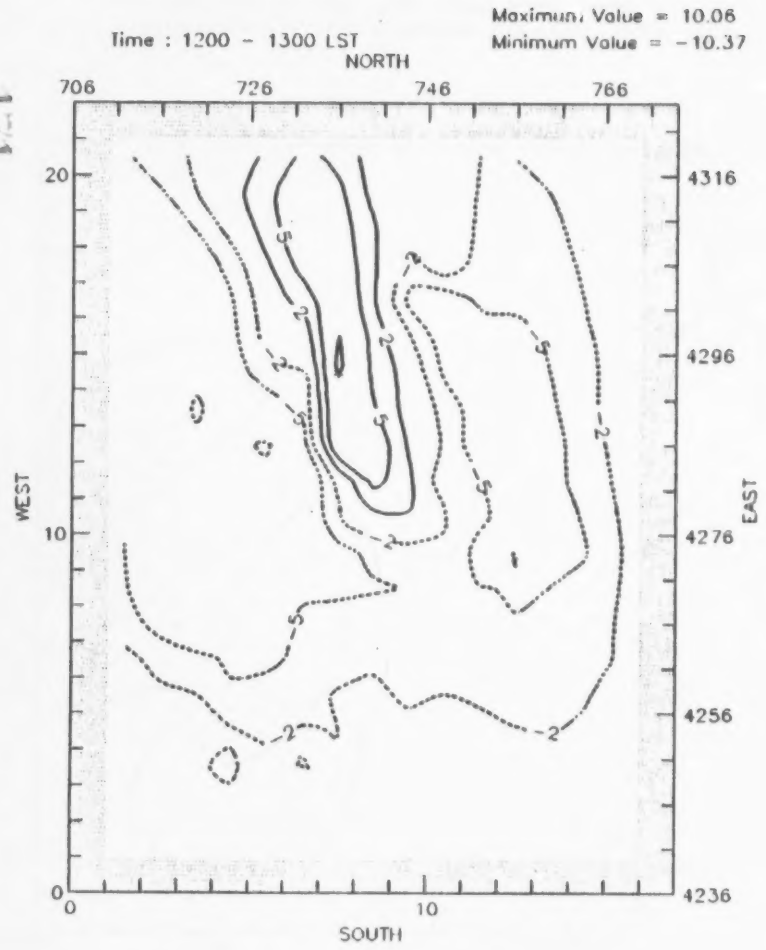
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #1 and 1995 base case on 13 July, 1976.

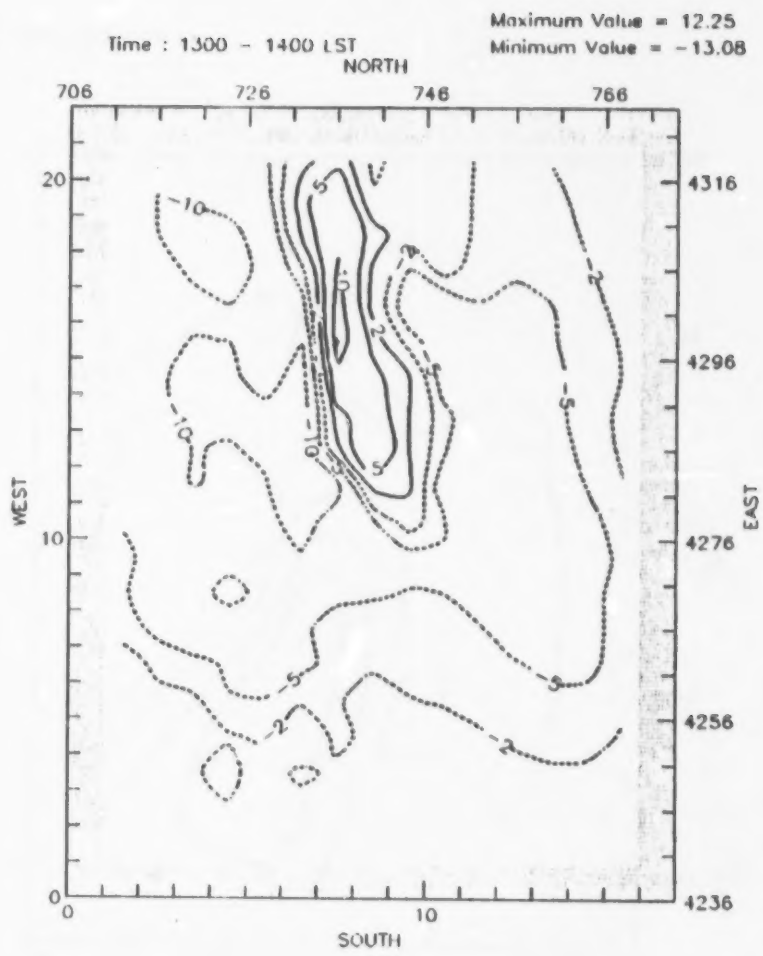




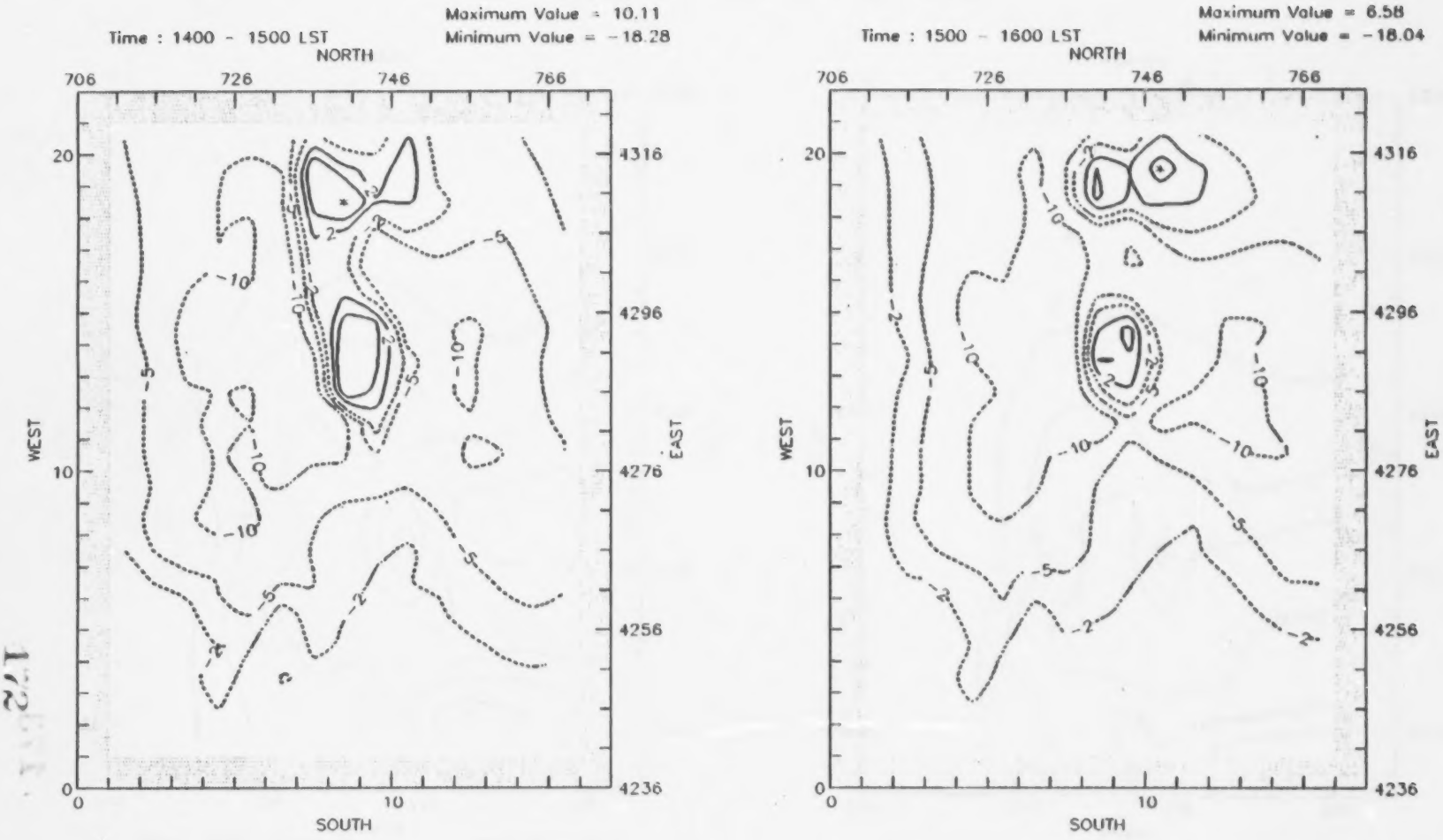
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #1 and 1995 base case on 13 July, 1976.

Reproduced from
best available copy.

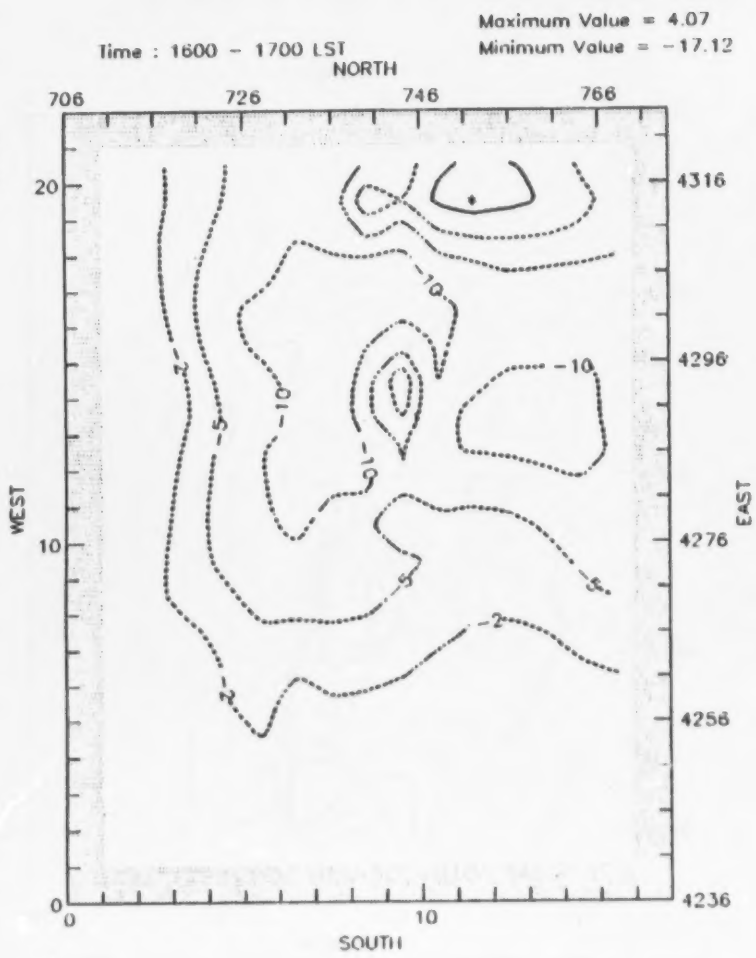


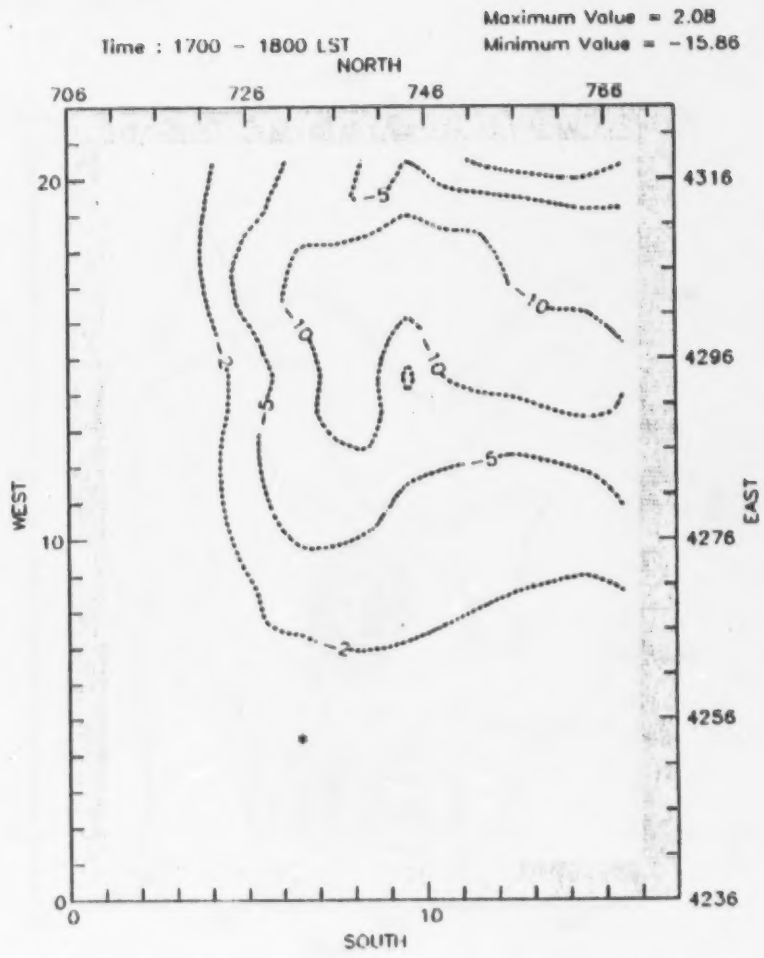


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #1 and 1995 base case on 13 July, 1976.

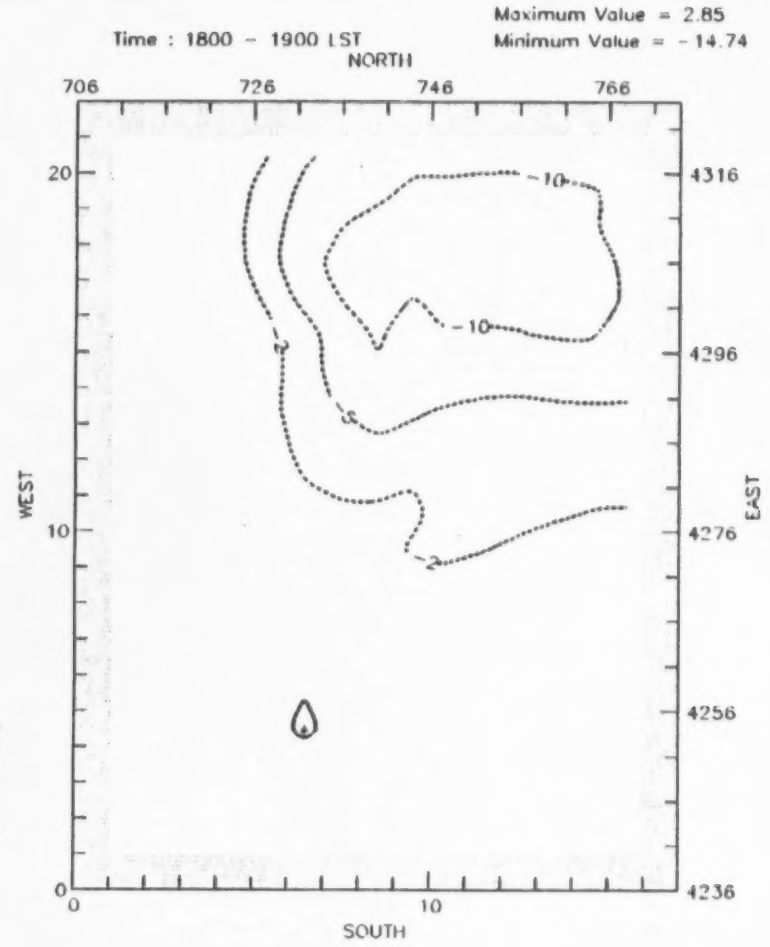


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #1 and 1995 base case on 13 July, 1976.





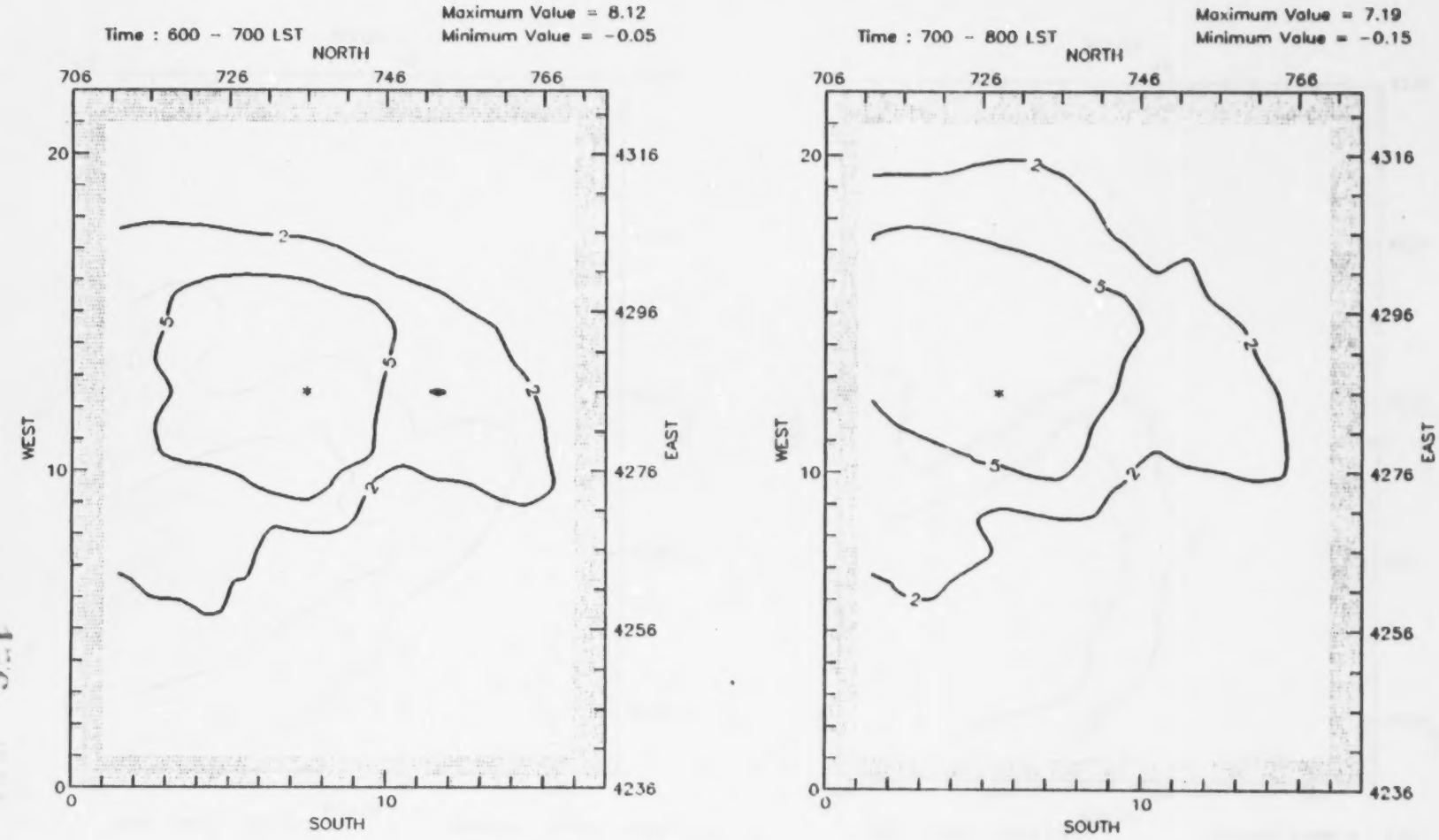
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #1 and 1995 base case on 13 July, 1976.



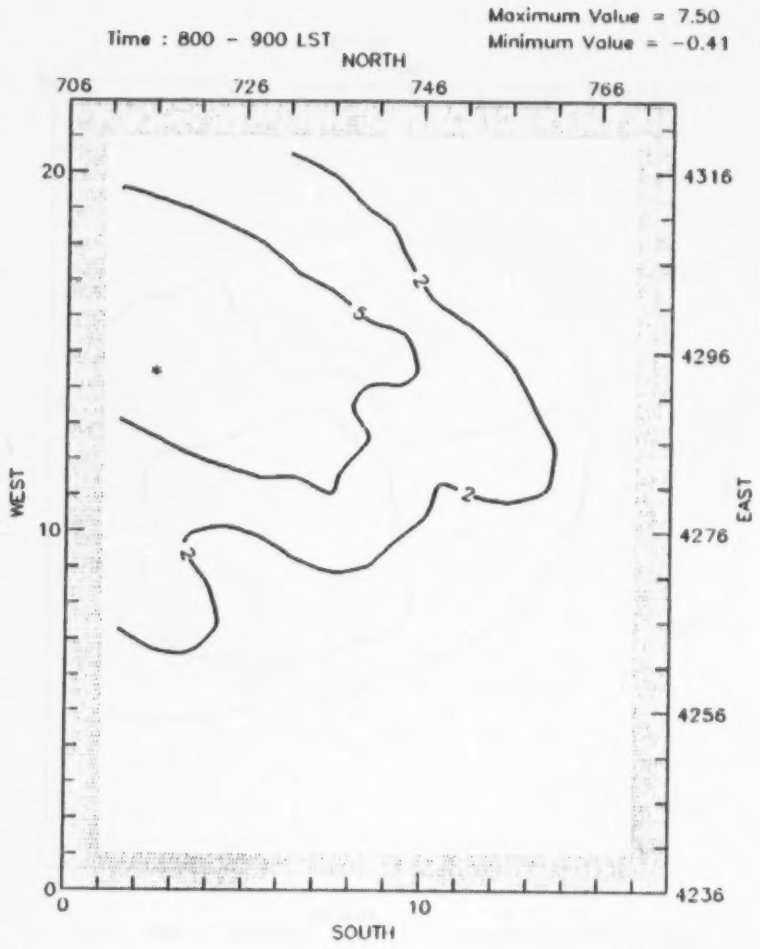
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #1 and 1995 base case on 13 July, 1976.

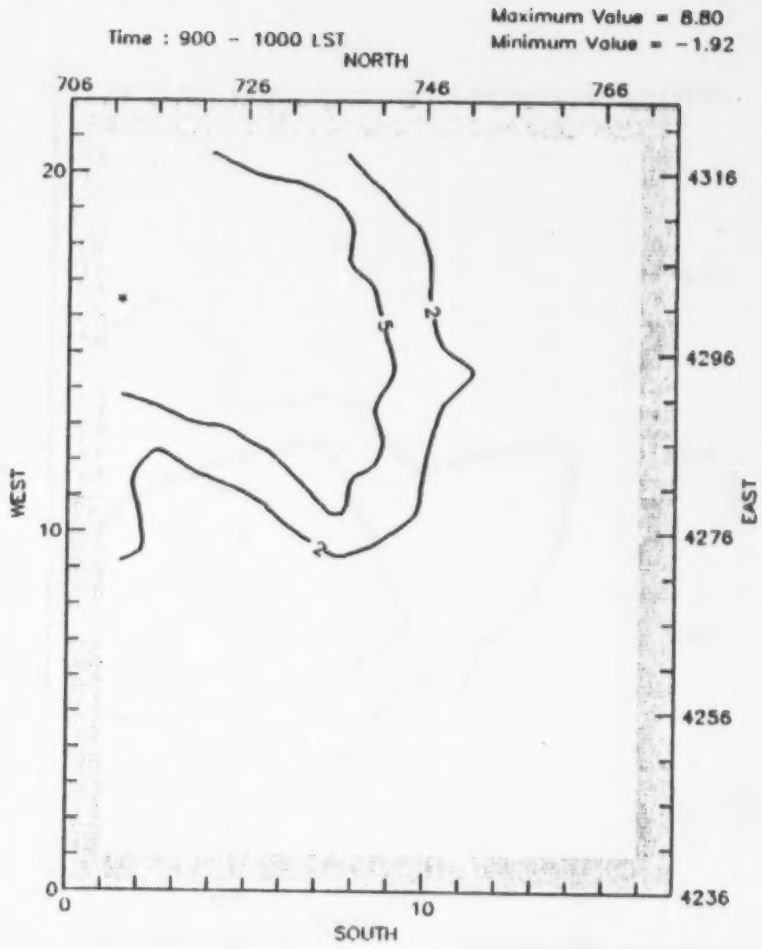
Appendix P

DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb)
BETWEEN ST. LOUIS 1995 SCENARIO #2 AND BASE CASE
EMISSIONS SCENARIO

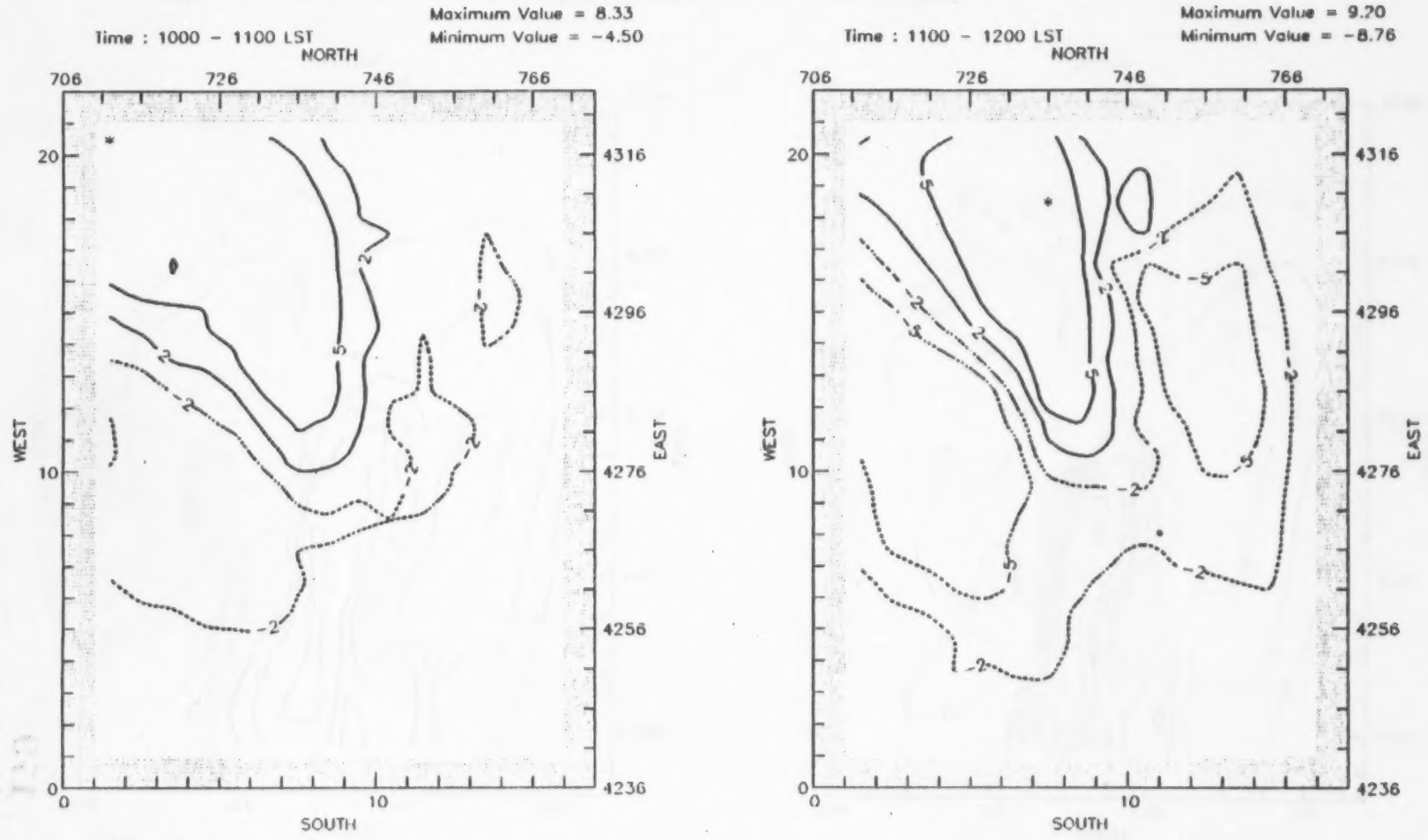


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #2 and 1995 base case on 13 July, 1976.

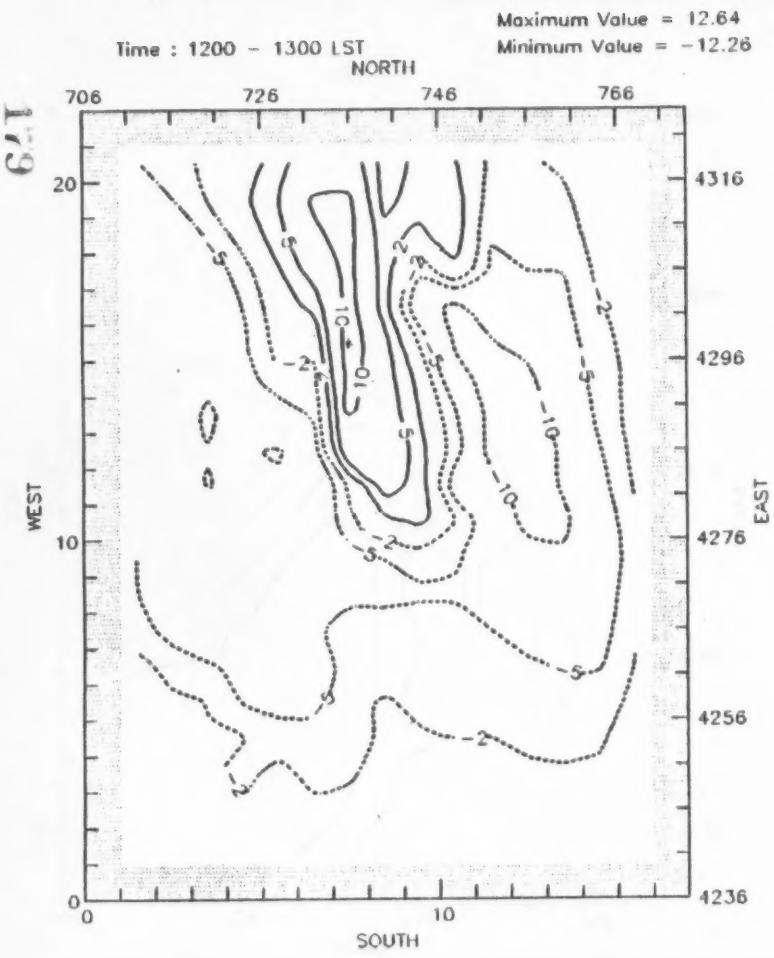


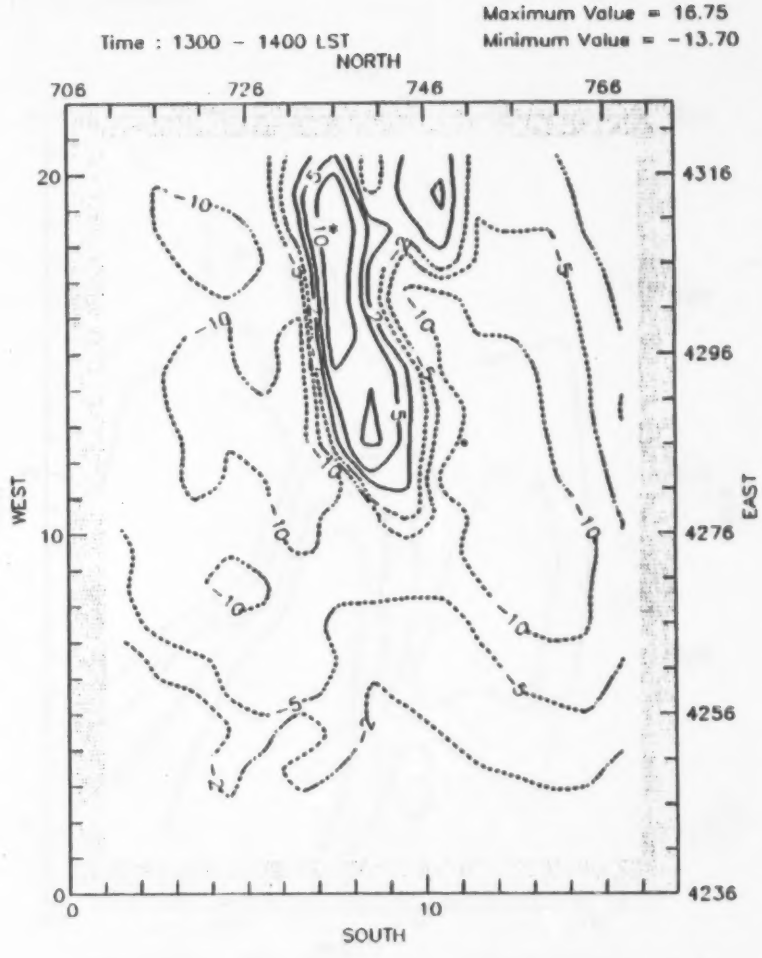


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #2 and 1995 base case on 13 July, 1976.

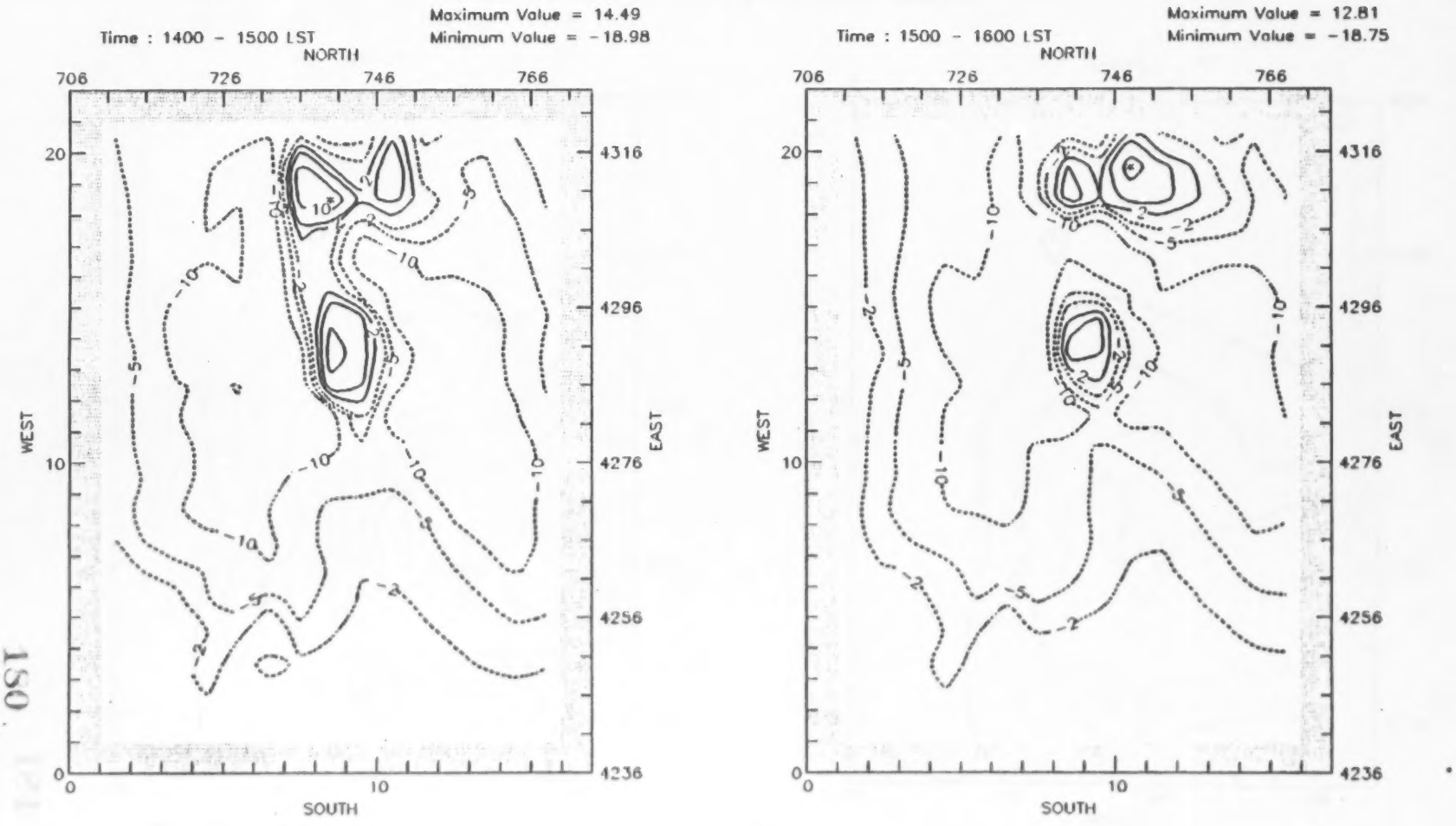


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #2 and 1995 base case on 13 July, 1976.

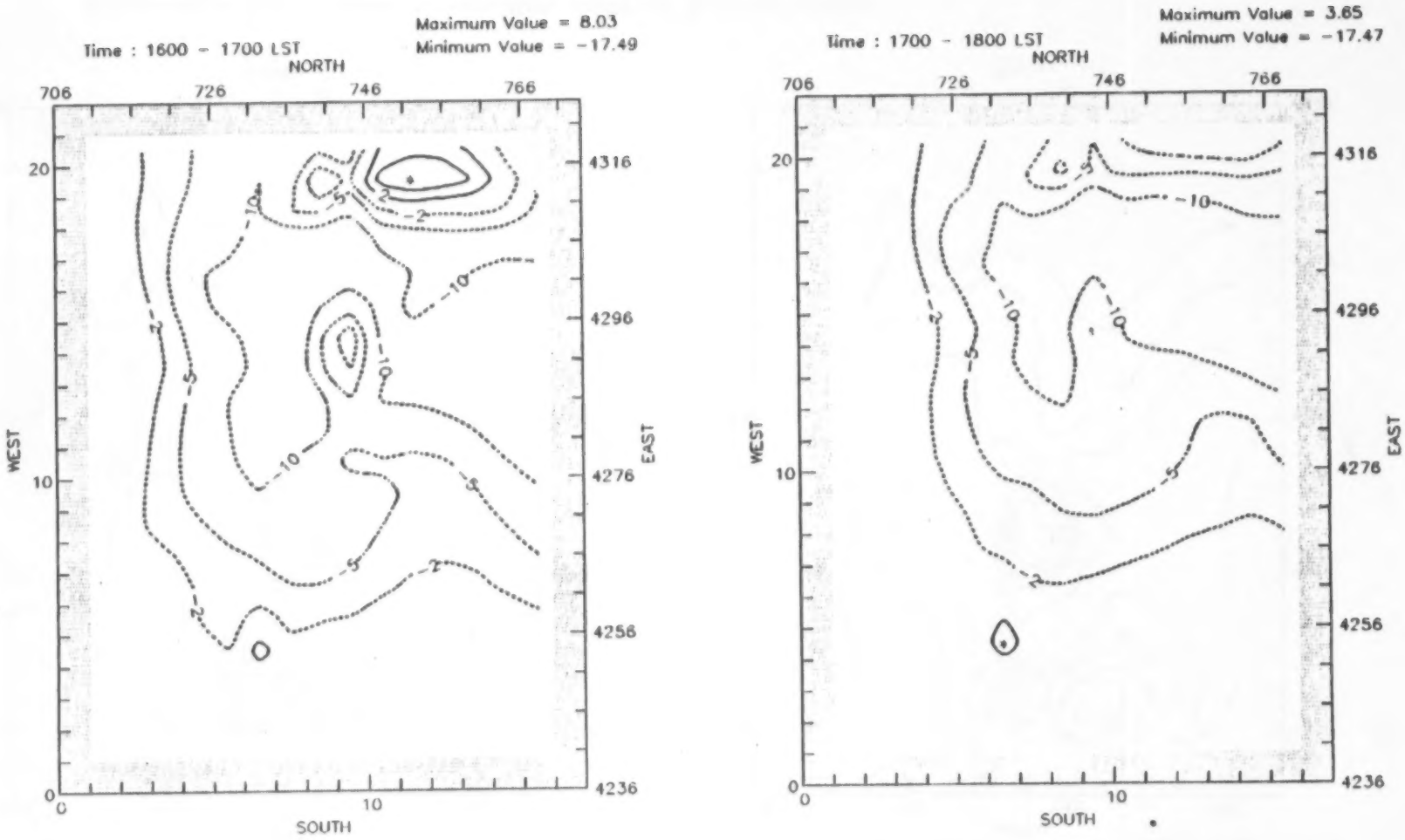




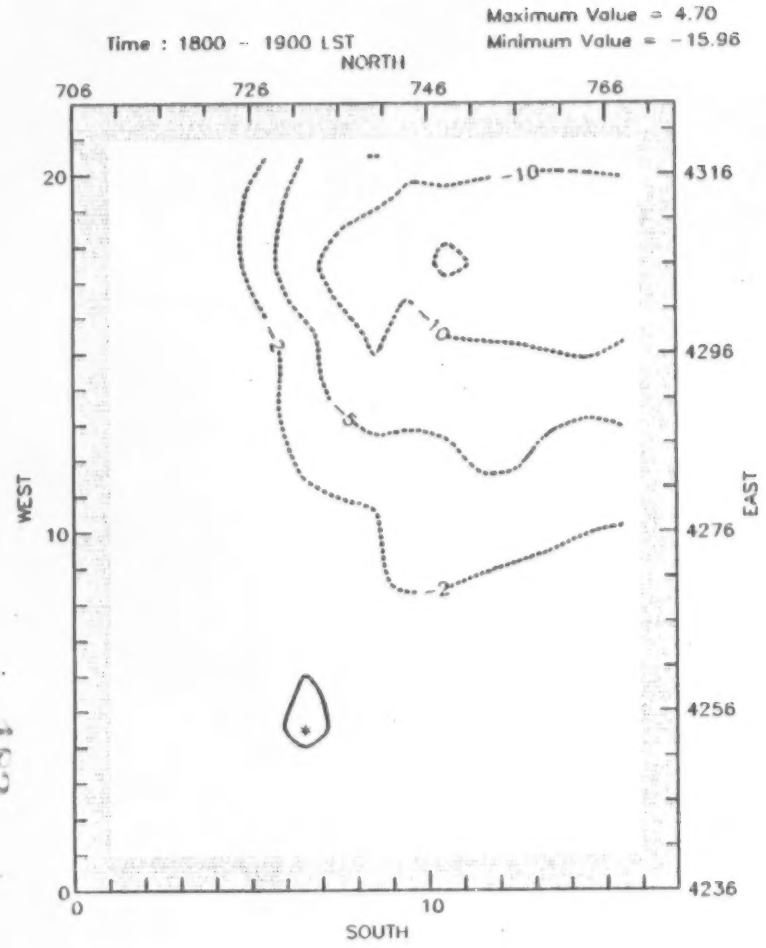
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #2 and 1995 base case on 13 July, 1976.



Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #2 and 1995 base case on 13 July, 1976.



Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #2 and 1995 base case on 13 July, 1976.



Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 Scenario #2 and 1995 base case on 13 July, 1976.

Appendix Q

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR DALLAS-FORT WORTH 1995 NEW REGULATION GAS VEHICLE EMISSION SCENARIO

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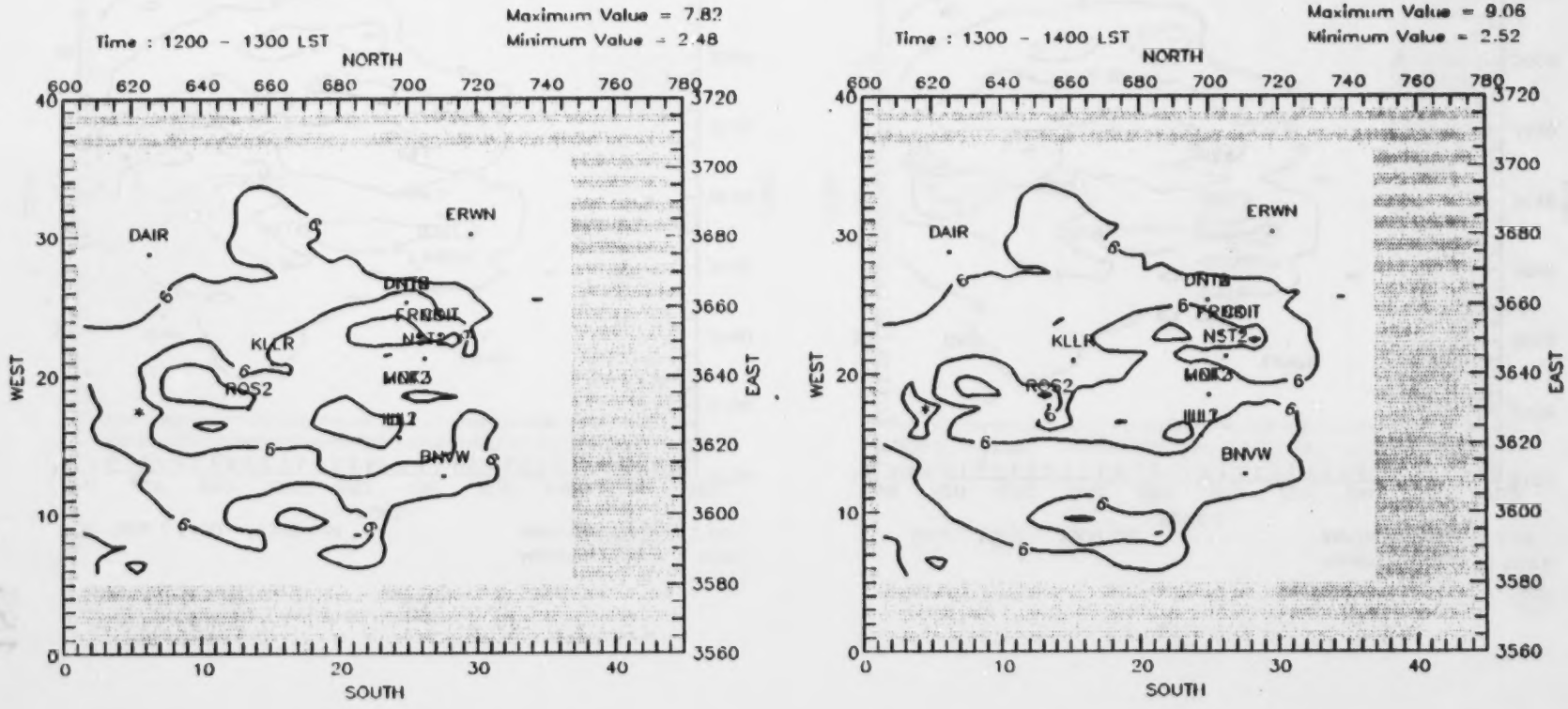
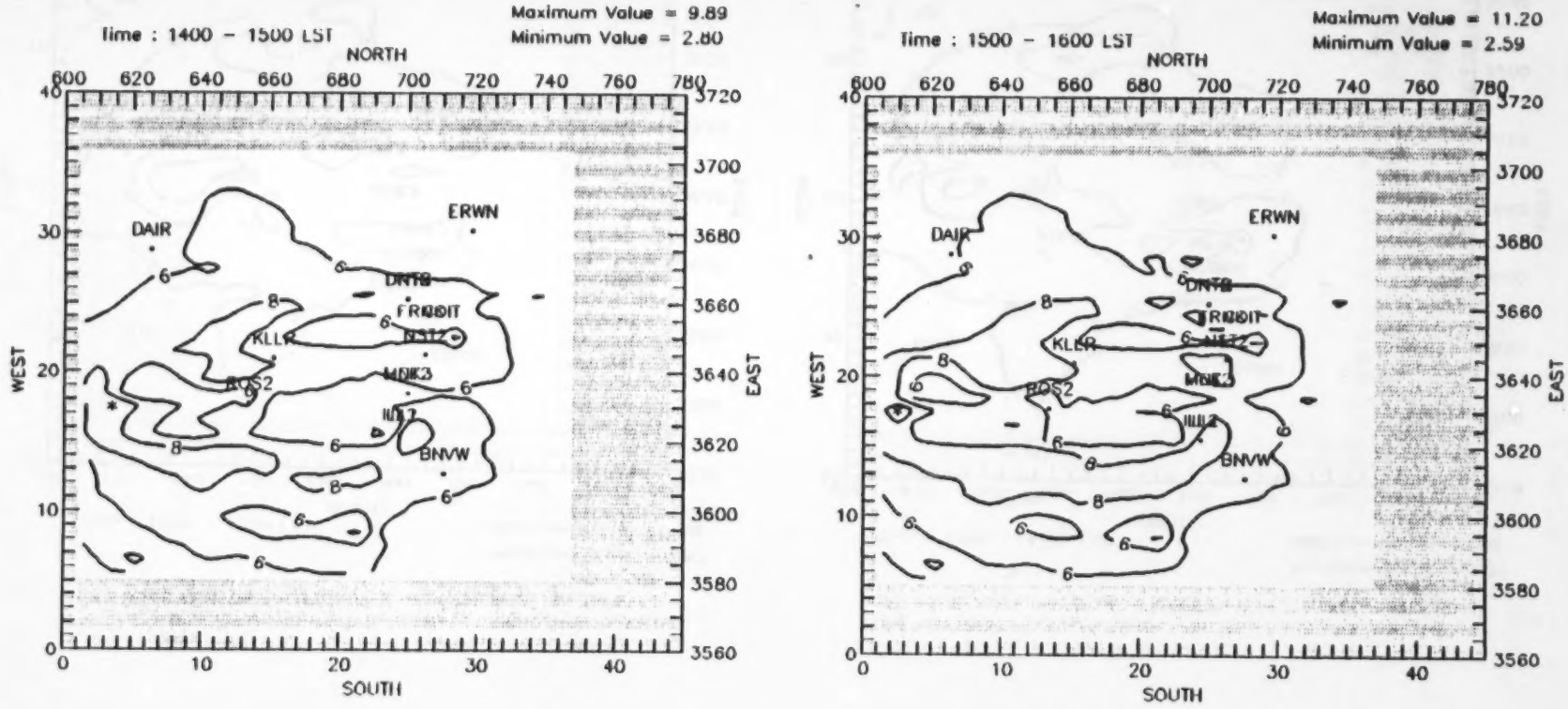
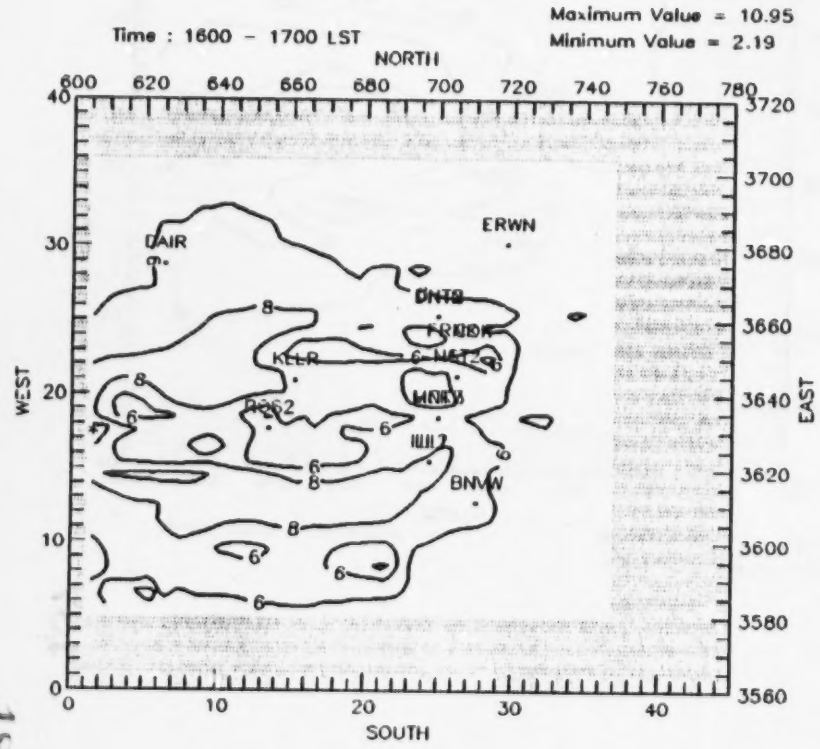
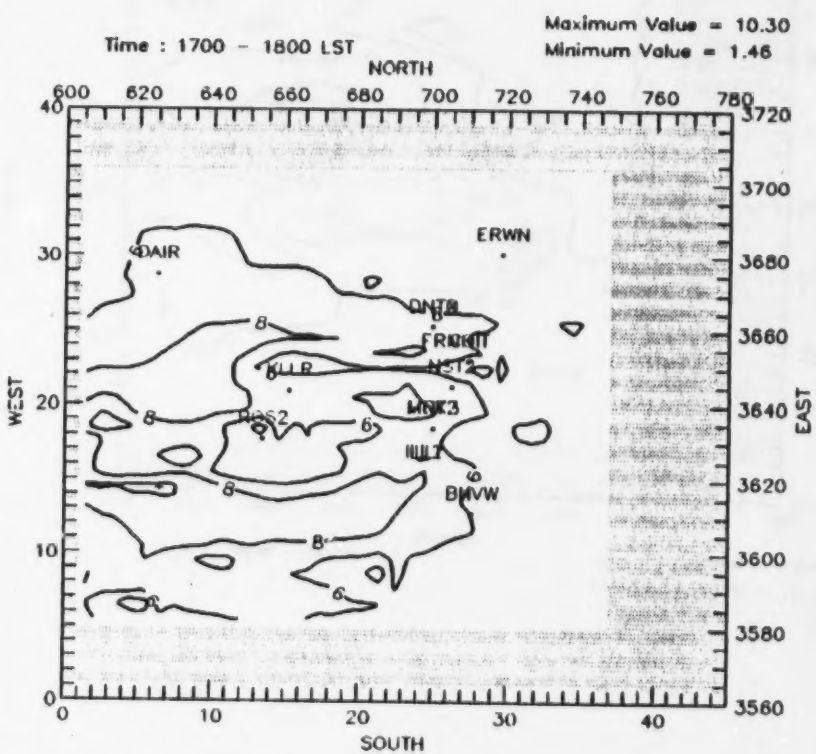


Predicted ozone concentrations (pphm) for 1995 new reg gas on 30 August, 1985.

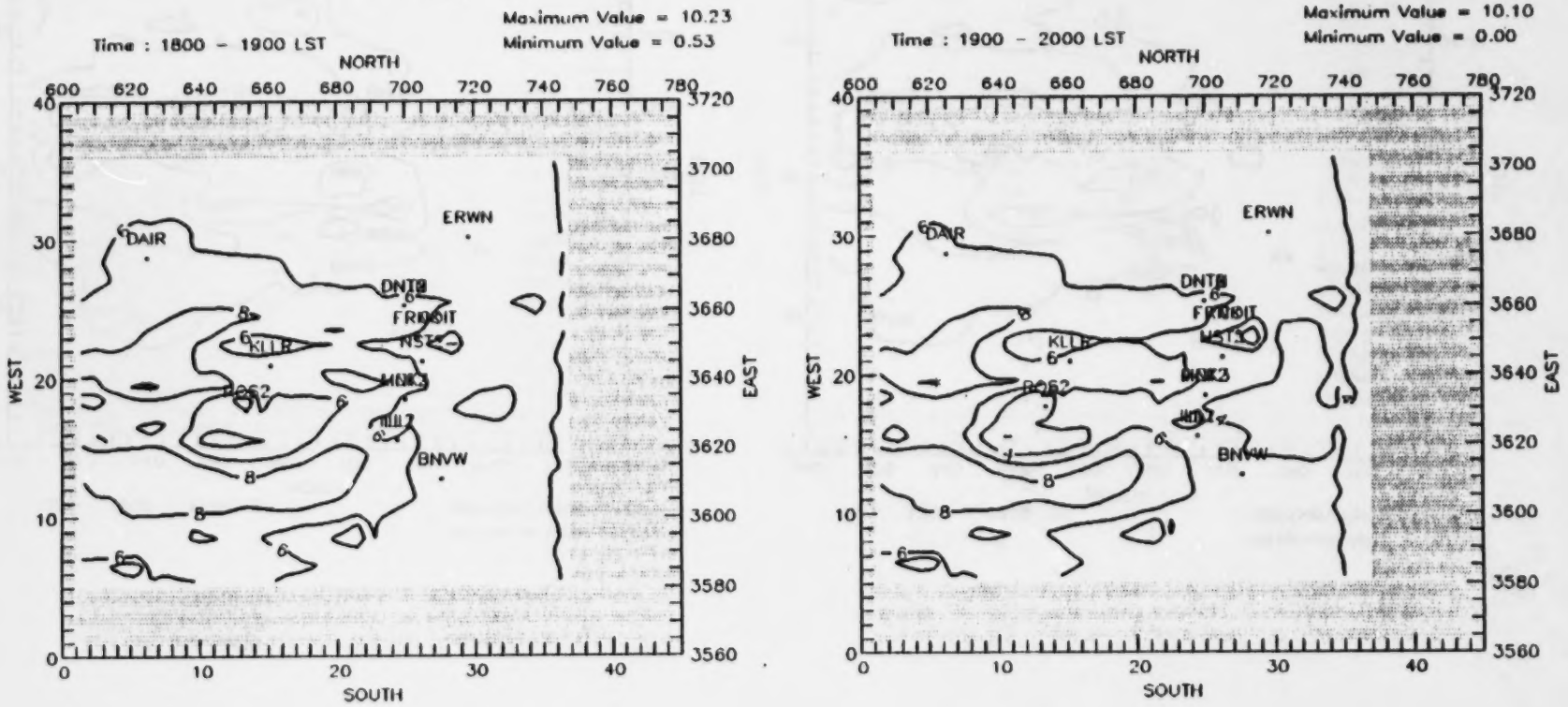


Predicted ozone concentrations (pphm) for 1995 new reg gas on 30 August, 1985.

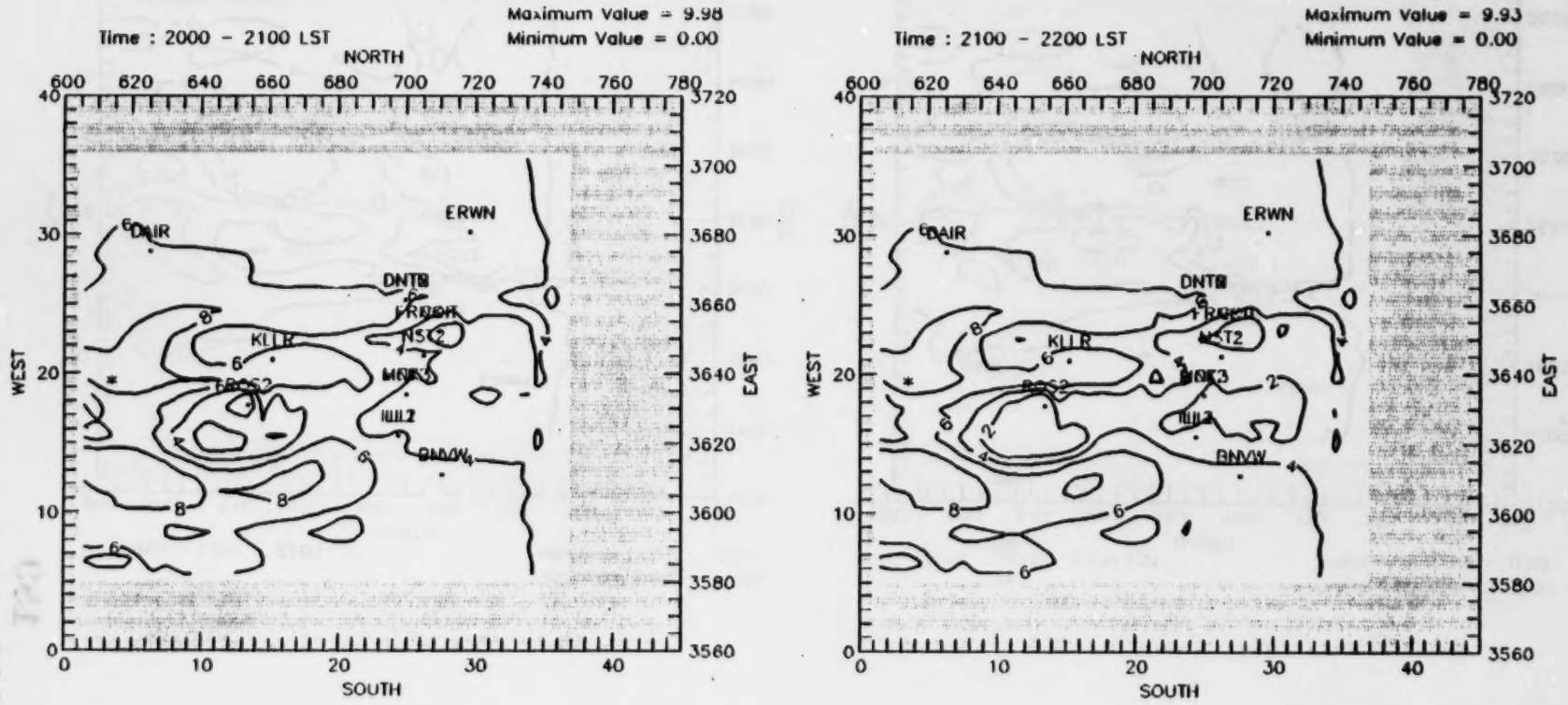




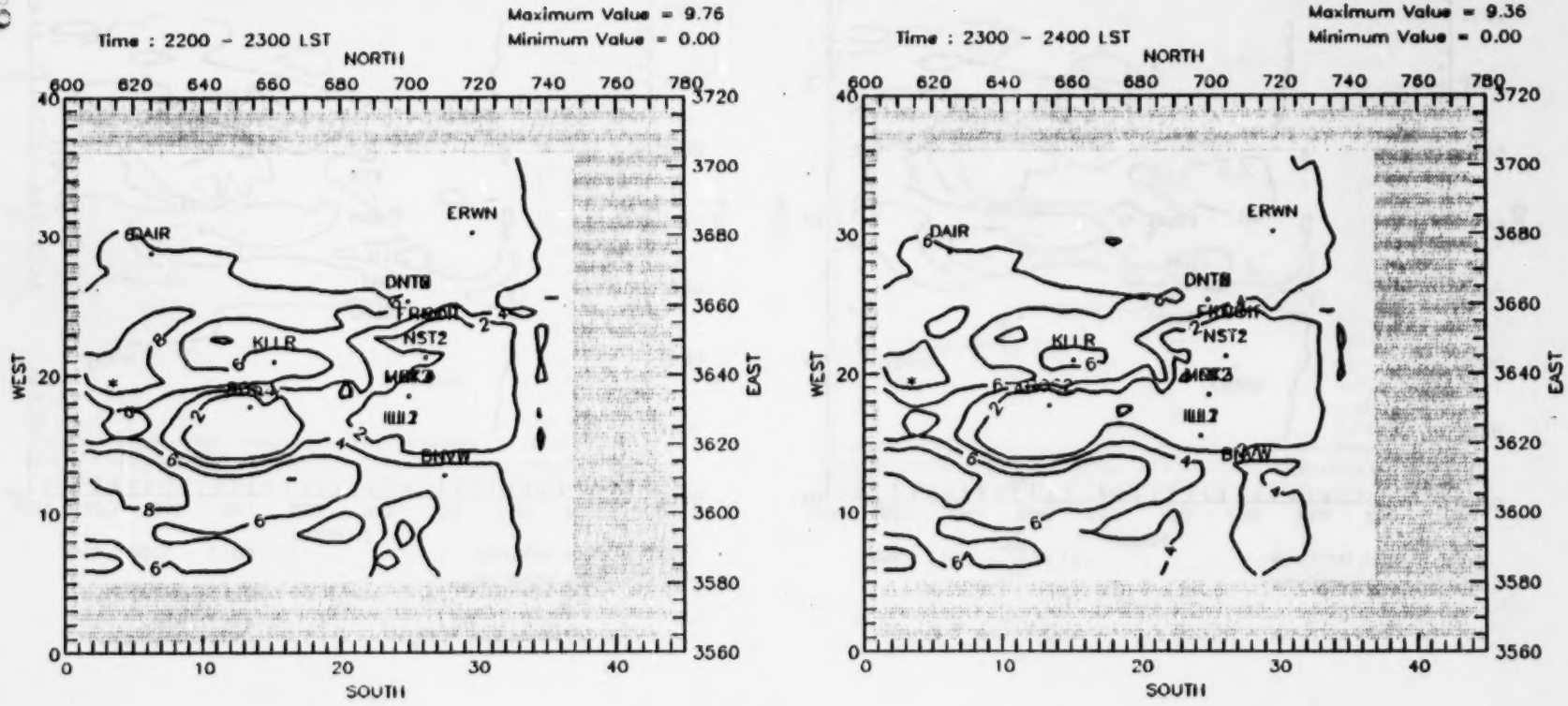
Predicted ozone concentrations (pphm) for 1995 new reg gas on 30 August, 1985.



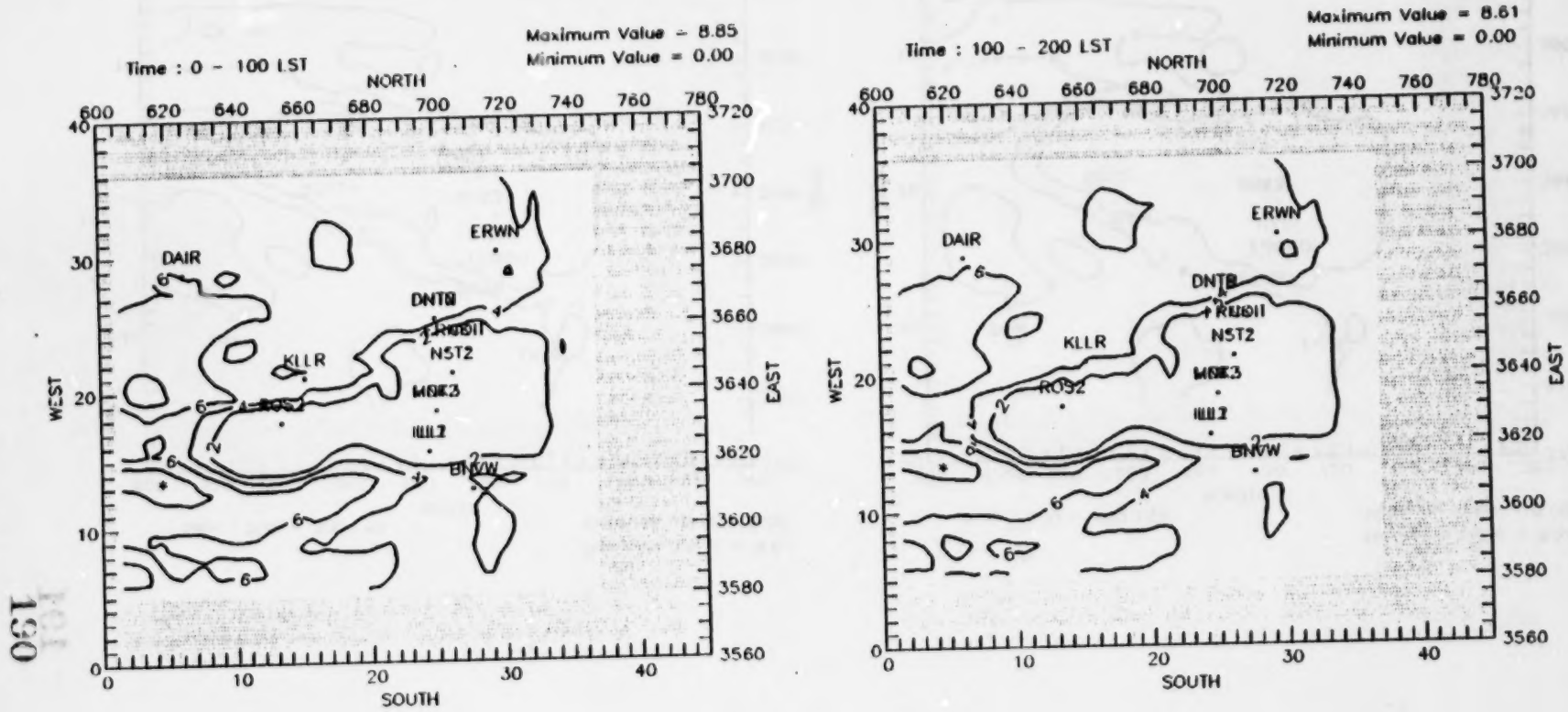
Predicted ozone concentrations (pphm) for 1995 new reg gas on 30 August, 1985.



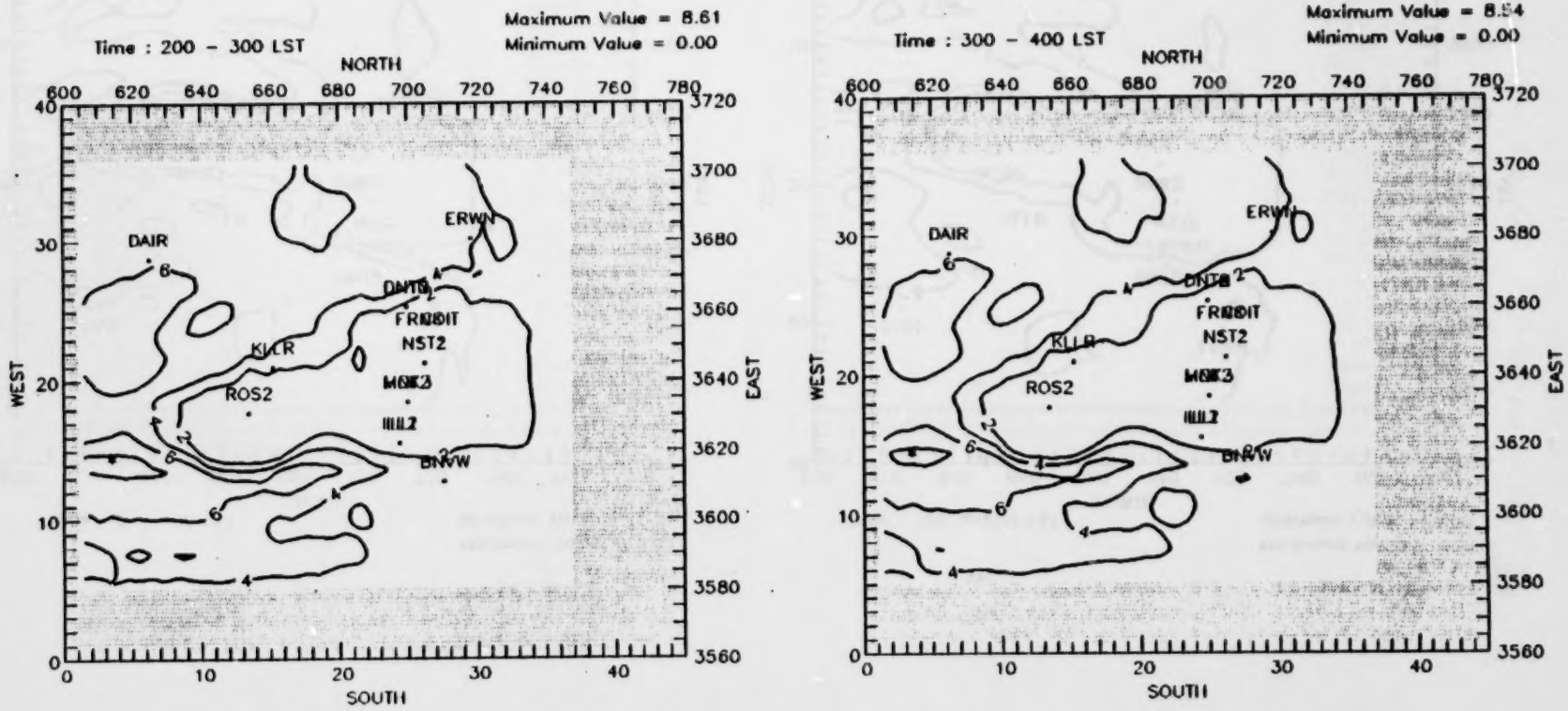
Predicted ozone concentrations (pphm) for 1995 new reg gas on 30 August, 1985.



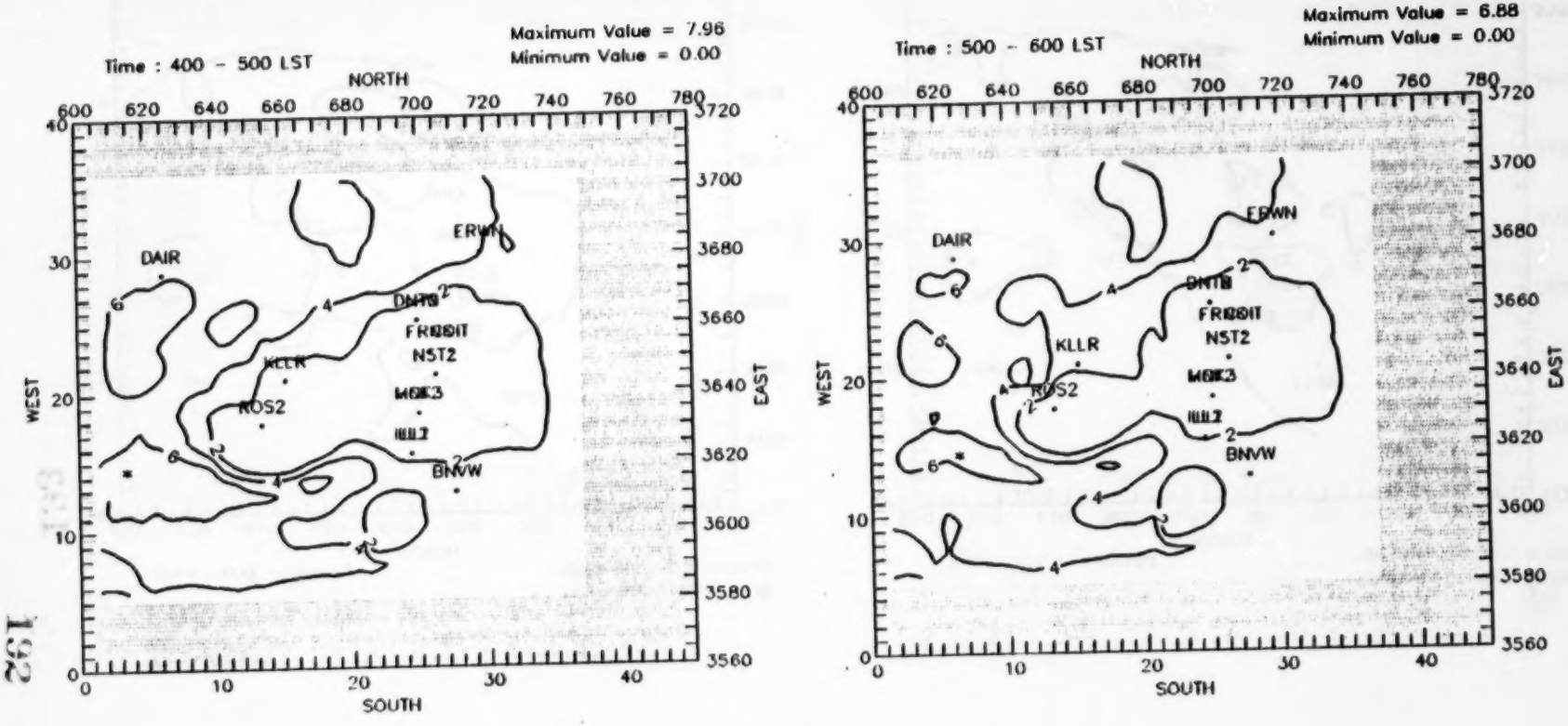
Predicted ozone concentrations (pphm) for 1995 new reg gas on 30 August, 1985.



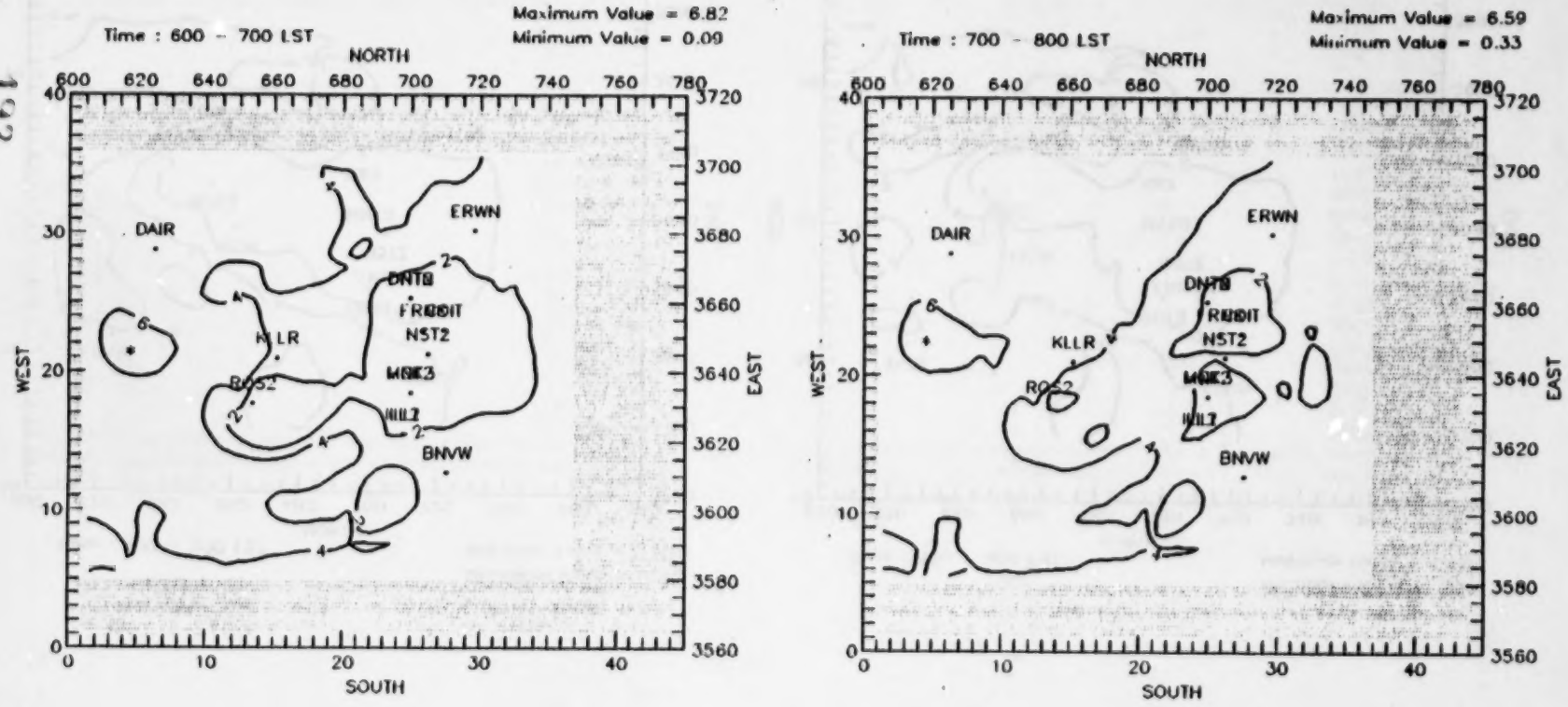
Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.



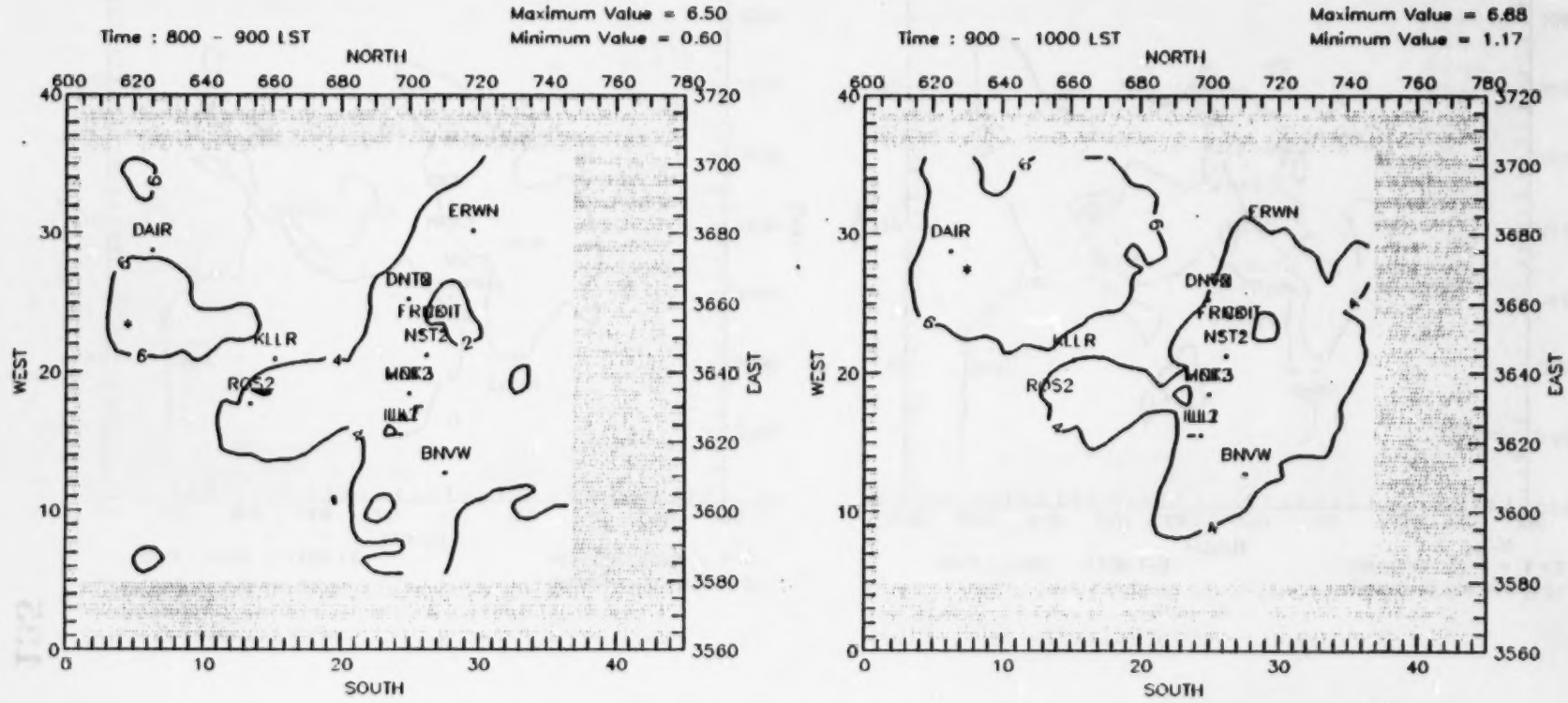
Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.



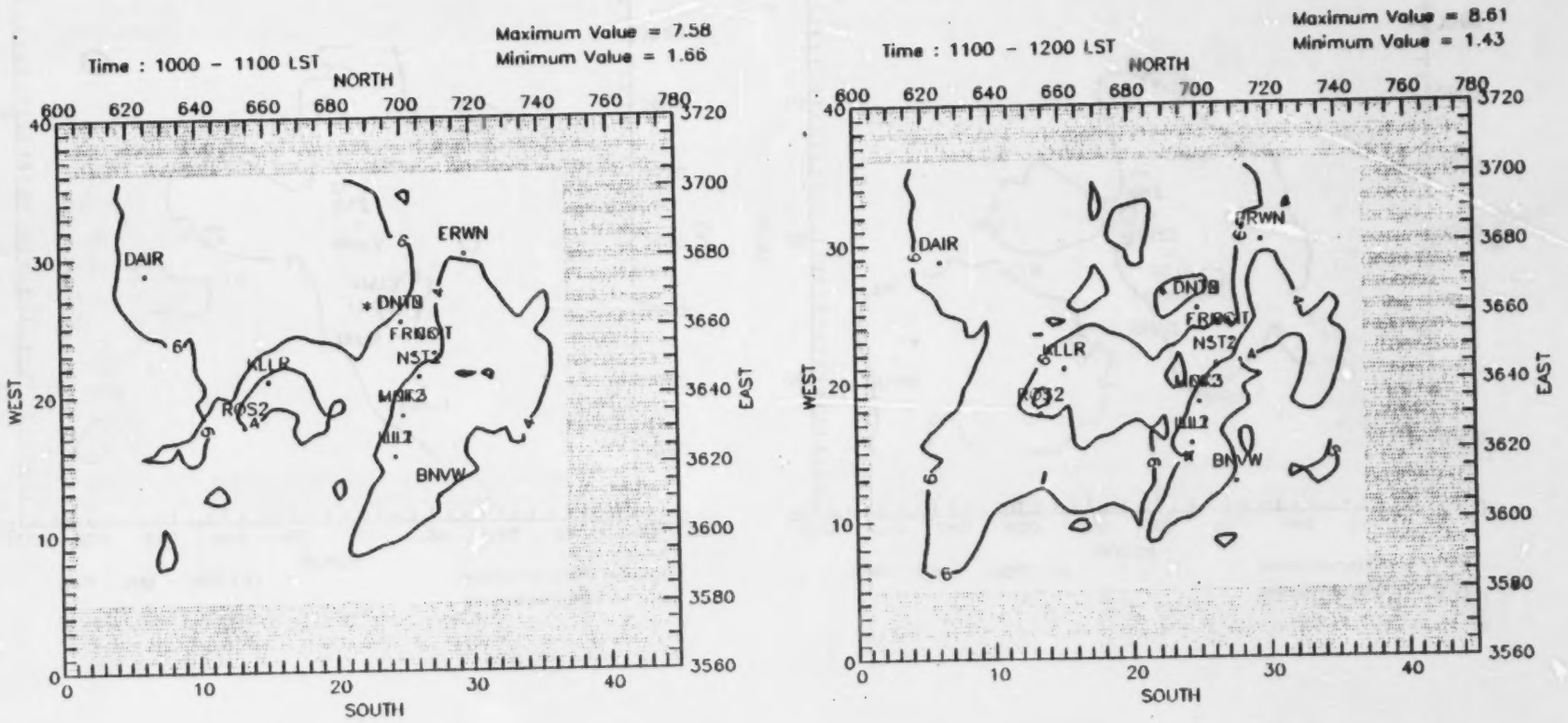
Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.



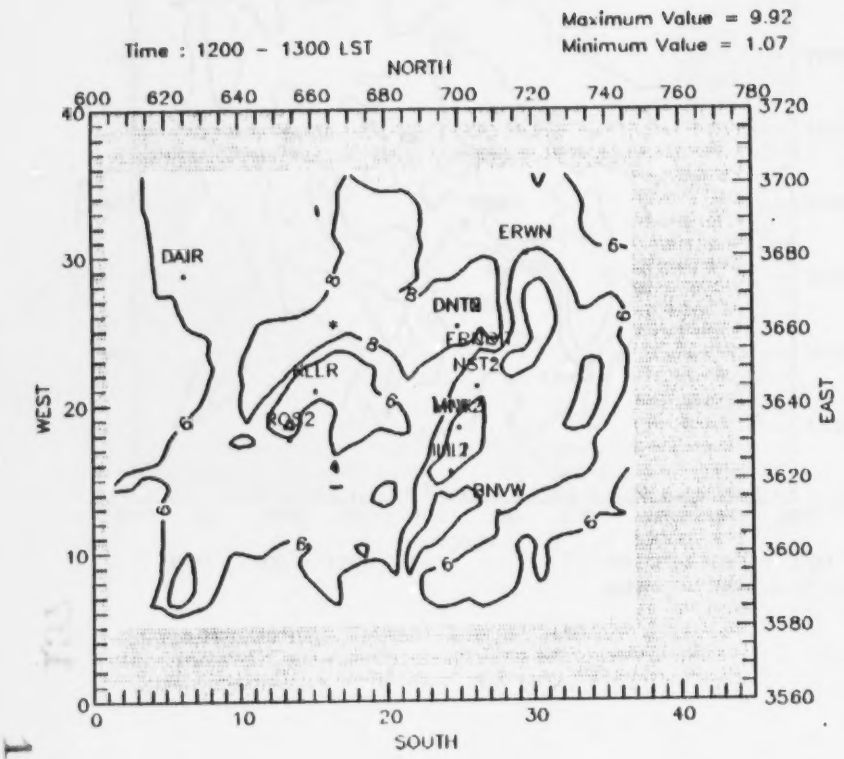
Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.

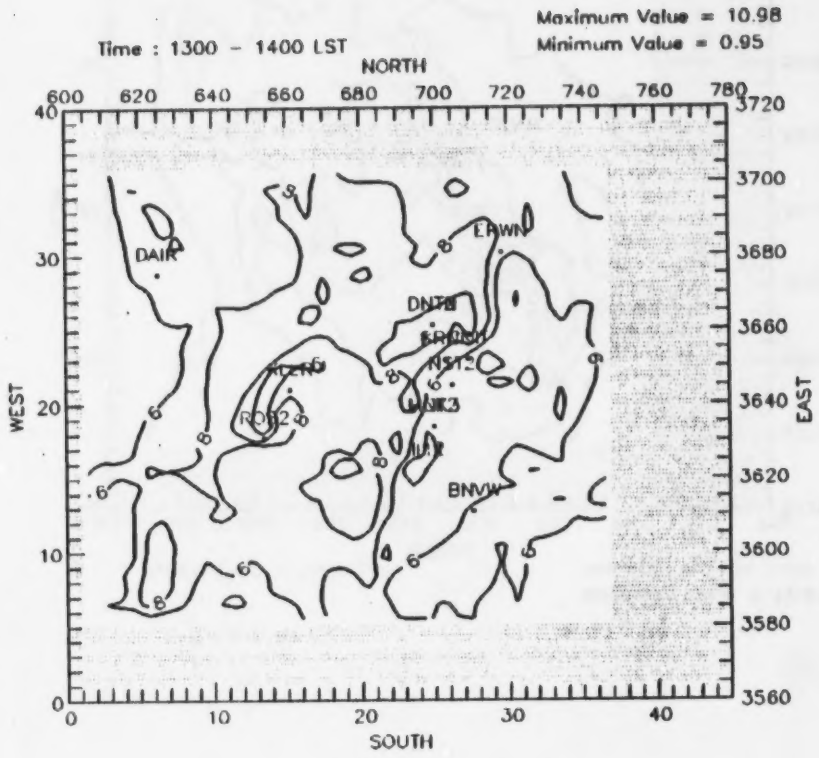


Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.

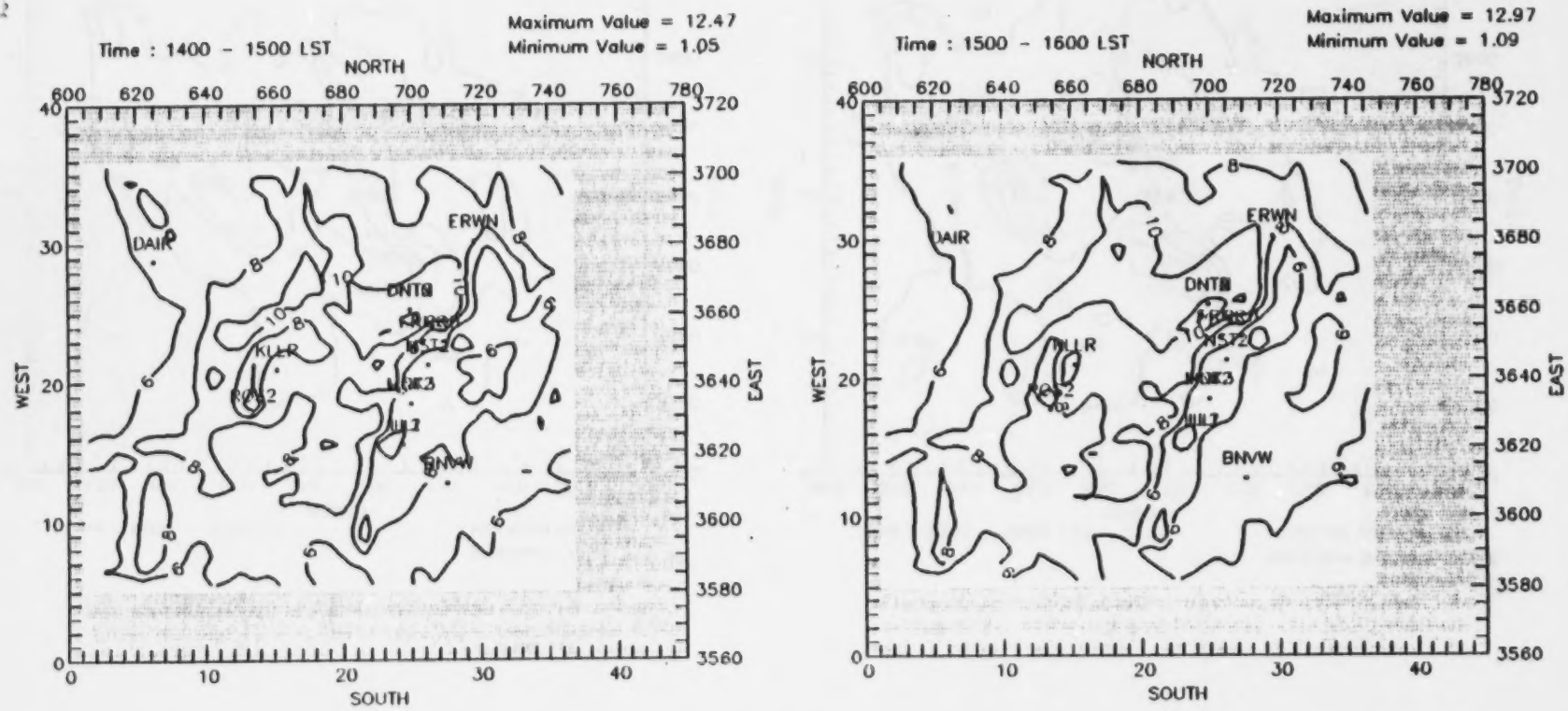


Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.

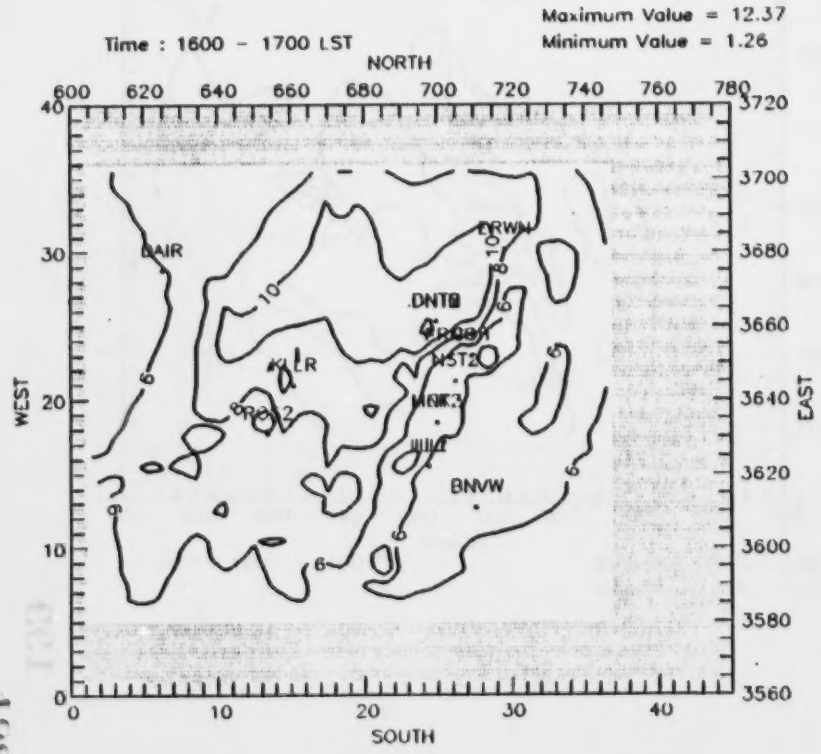


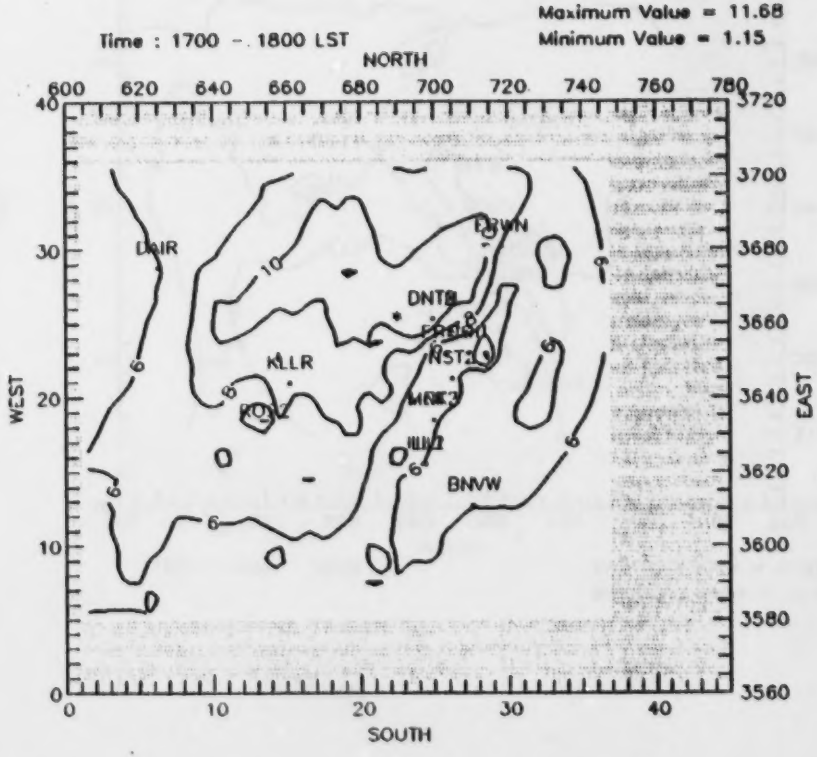


Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.

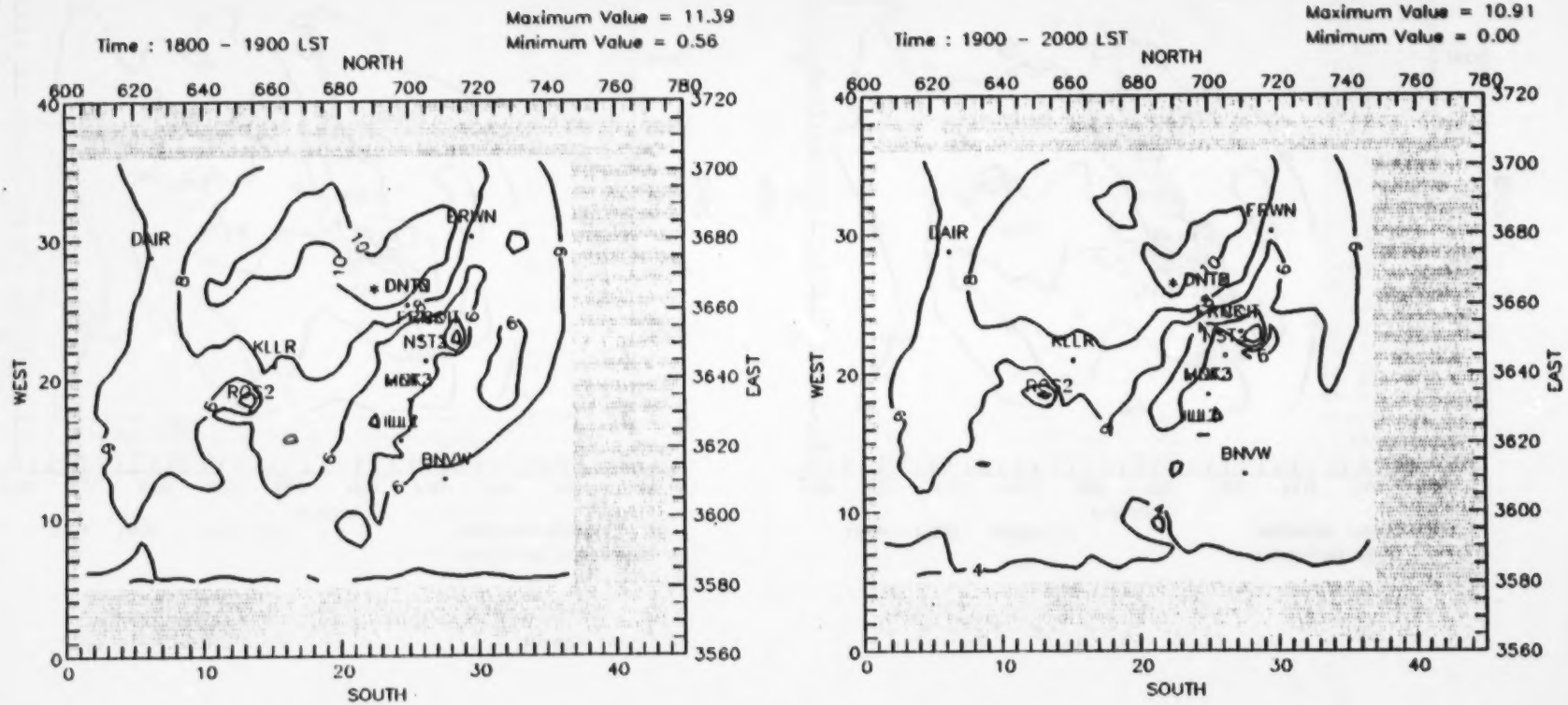


Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.

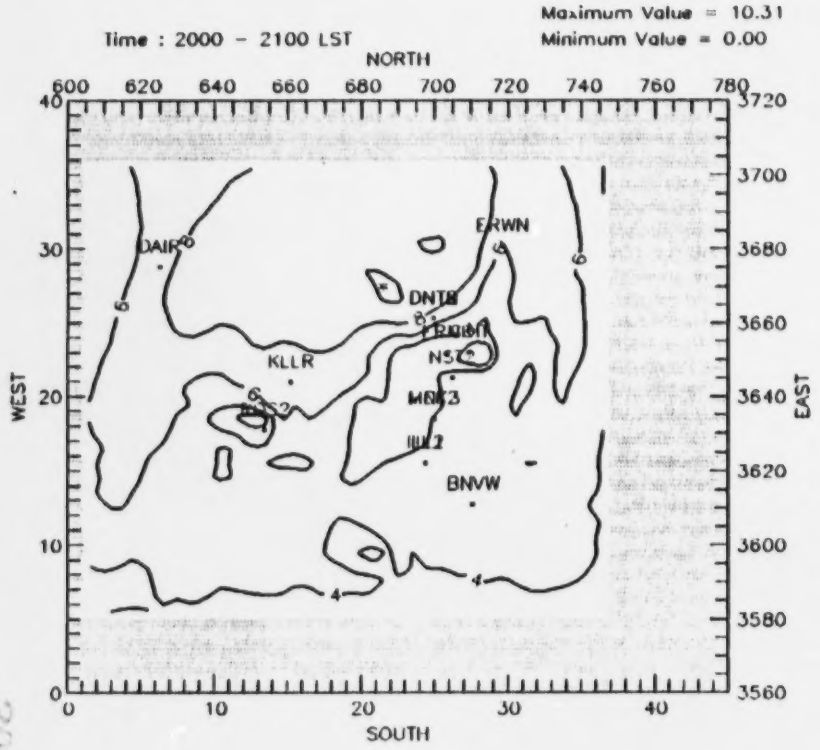




Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.



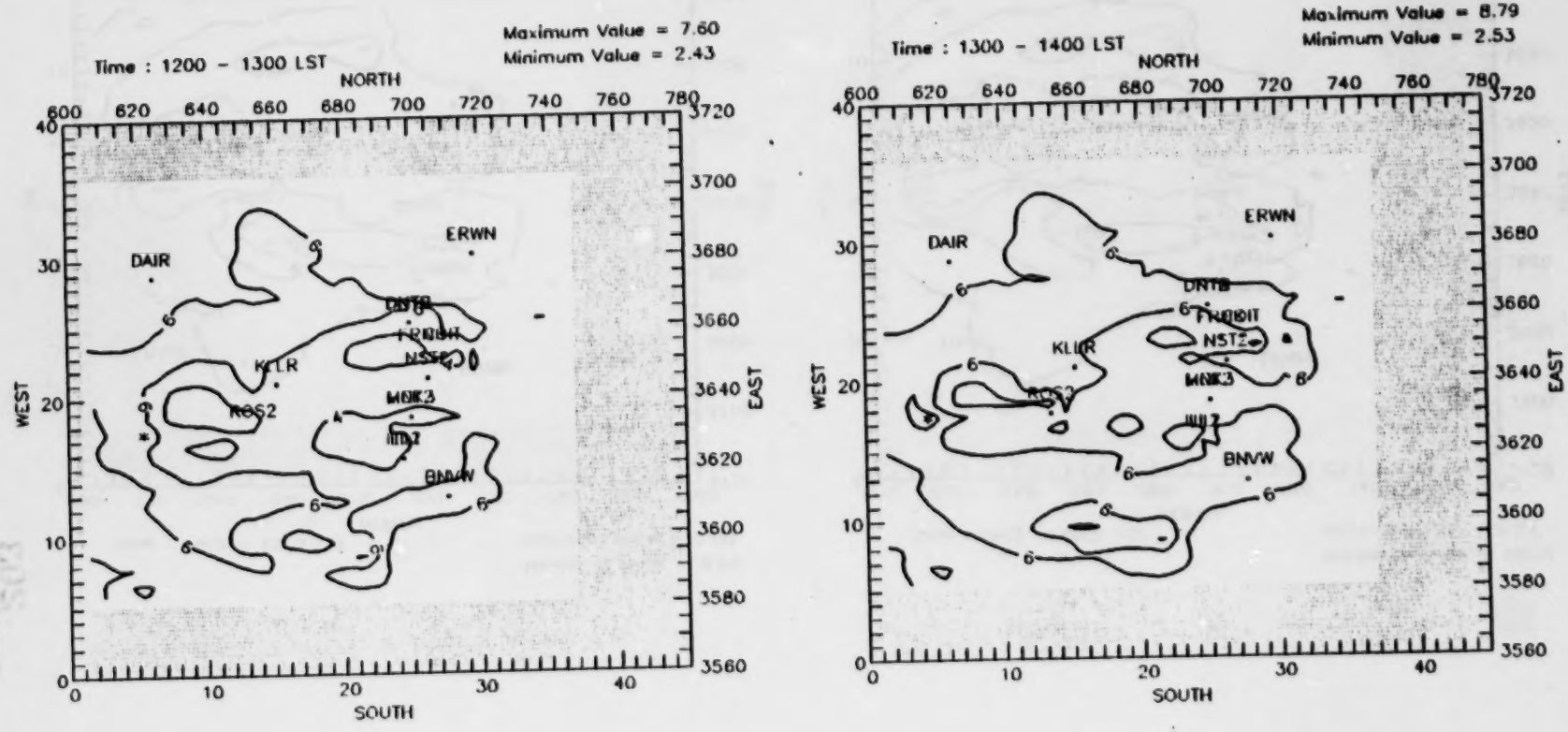
Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.



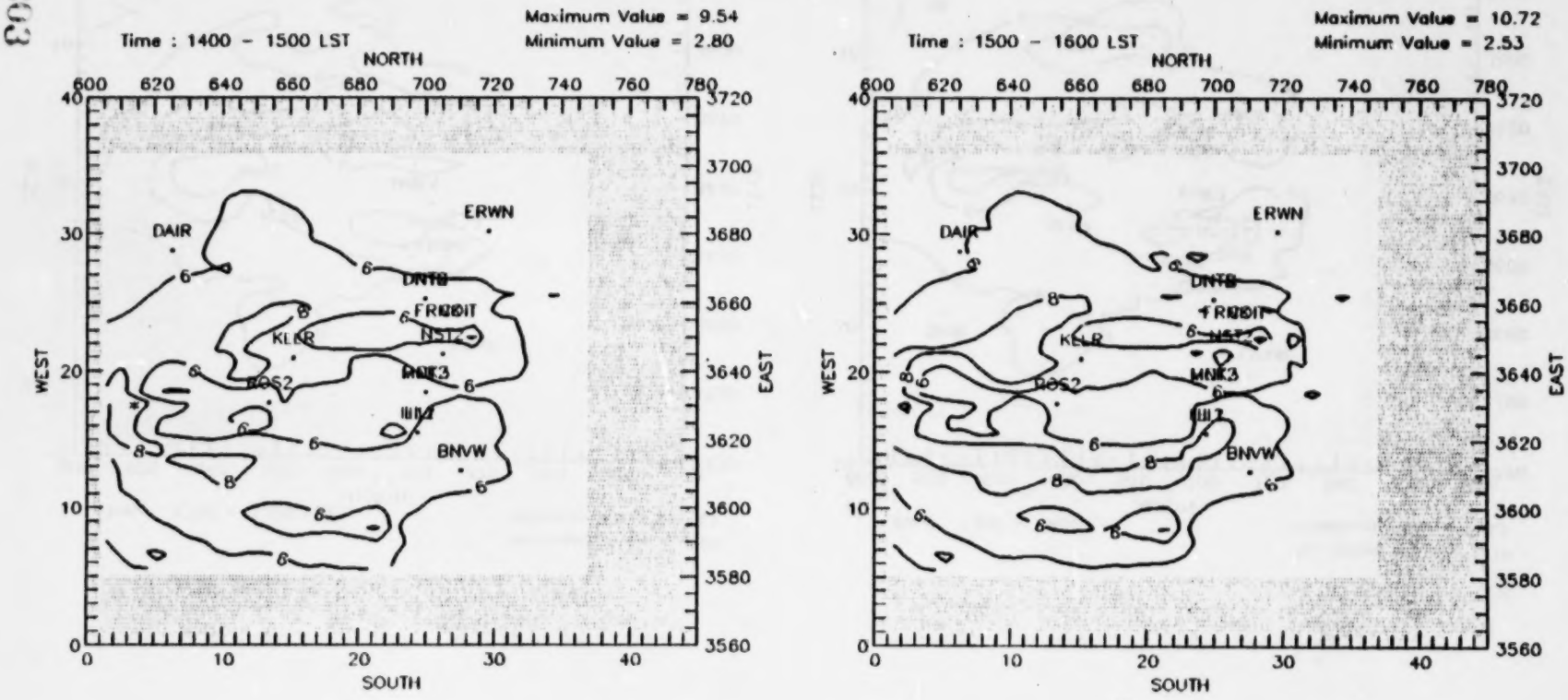
Predicted ozone concentrations (pphm) for 1995 new reg gas on 31 August 1985.

Appendix R

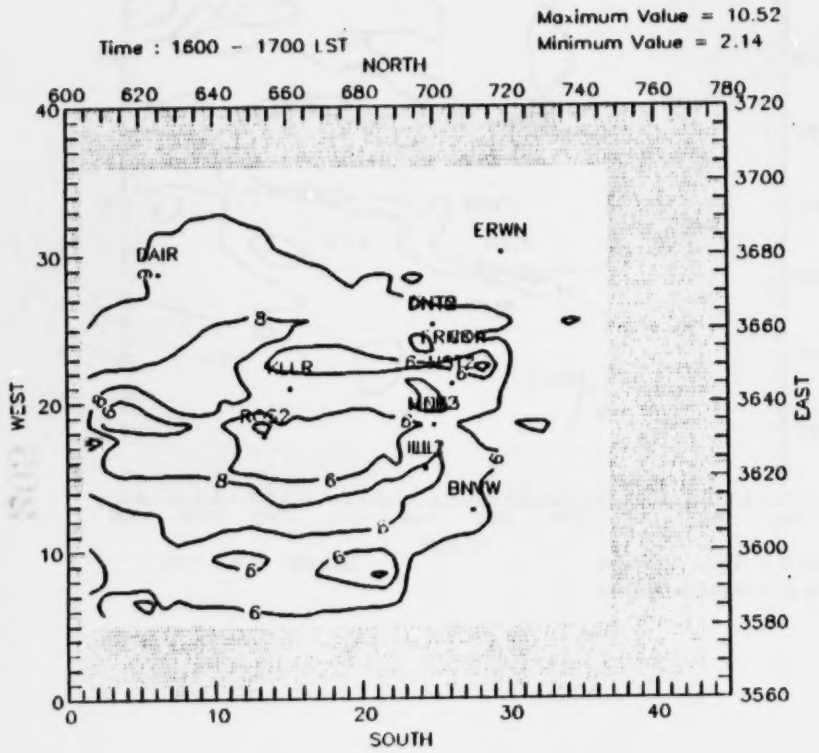
PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR DALLAS-FORT WORTH 1995 100 PERCENT METHANOL (M100) VEHICLE EMISSION SCENARIO



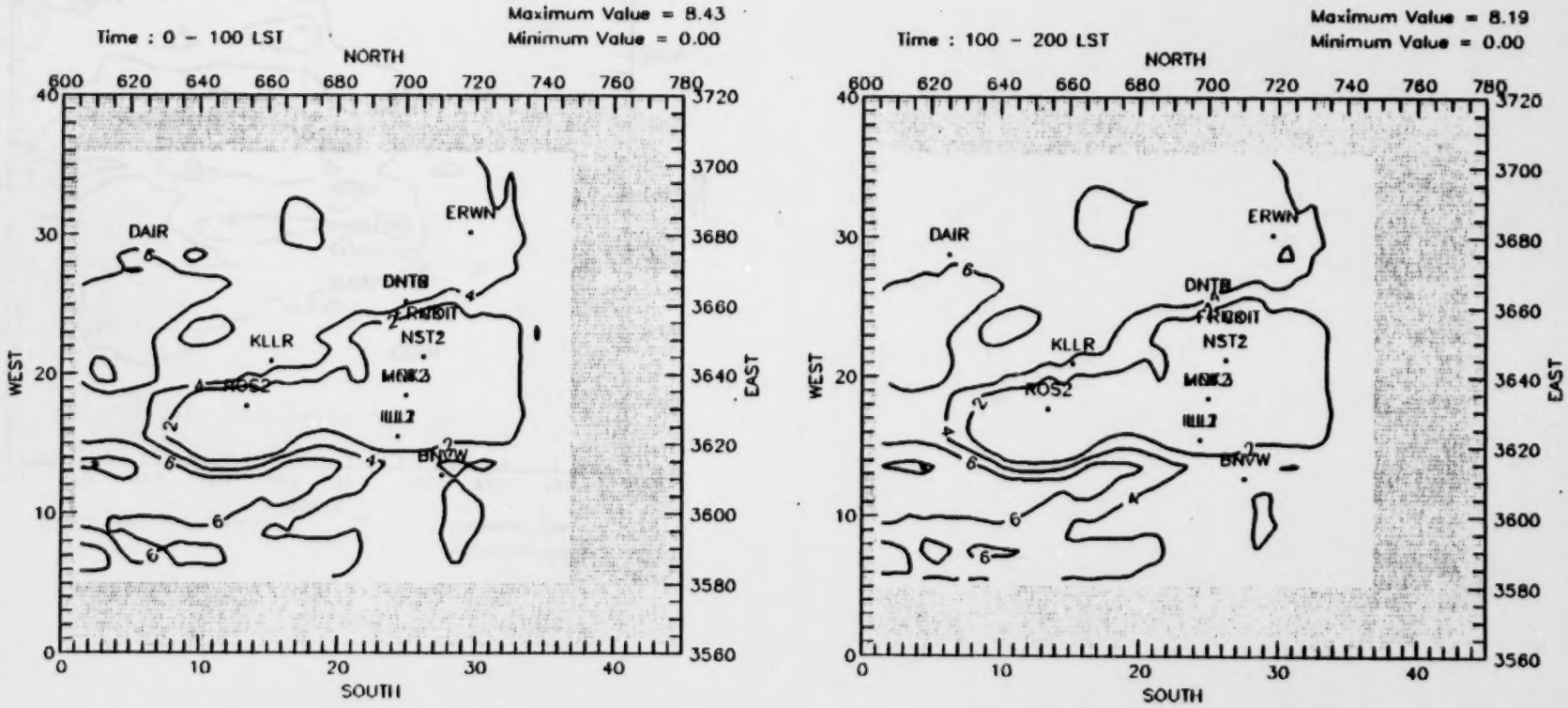
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario



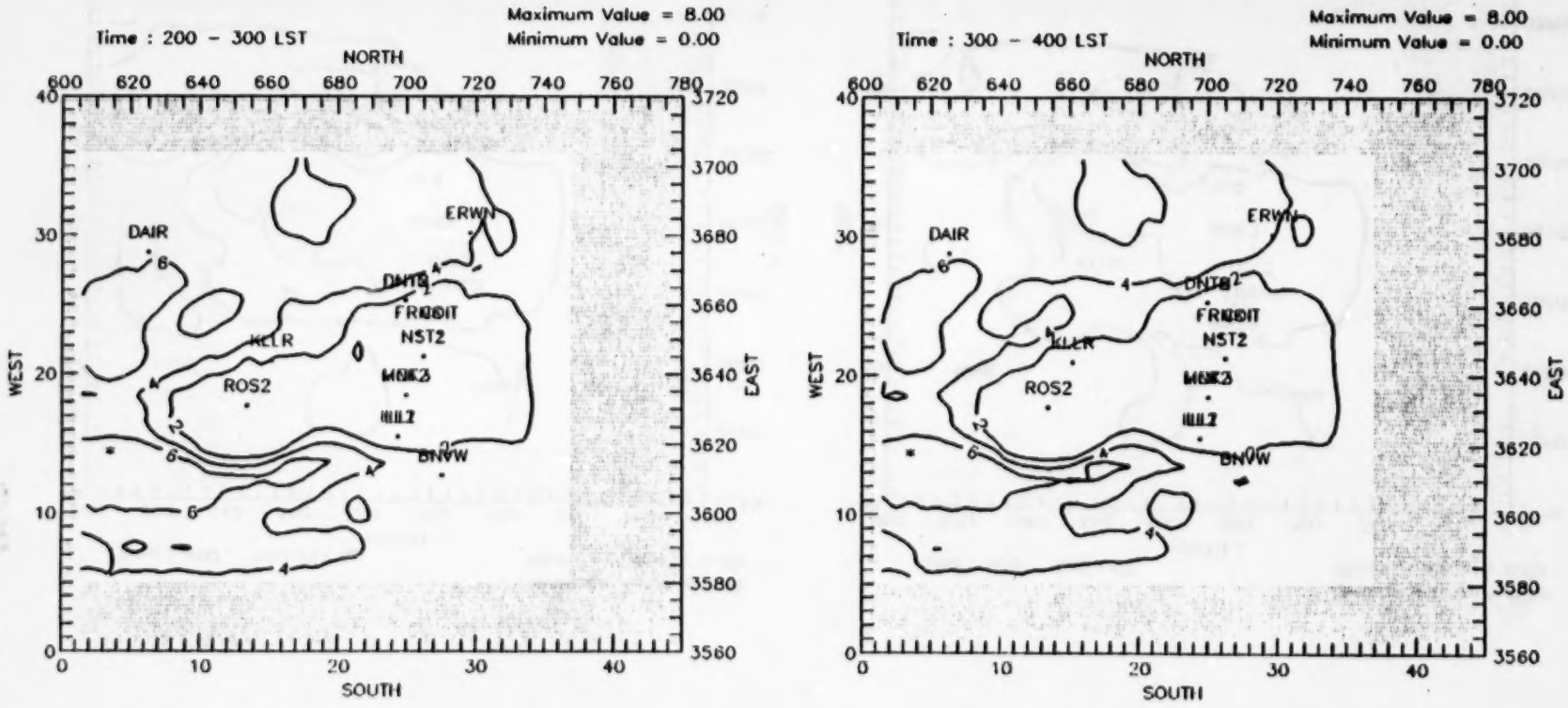
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario



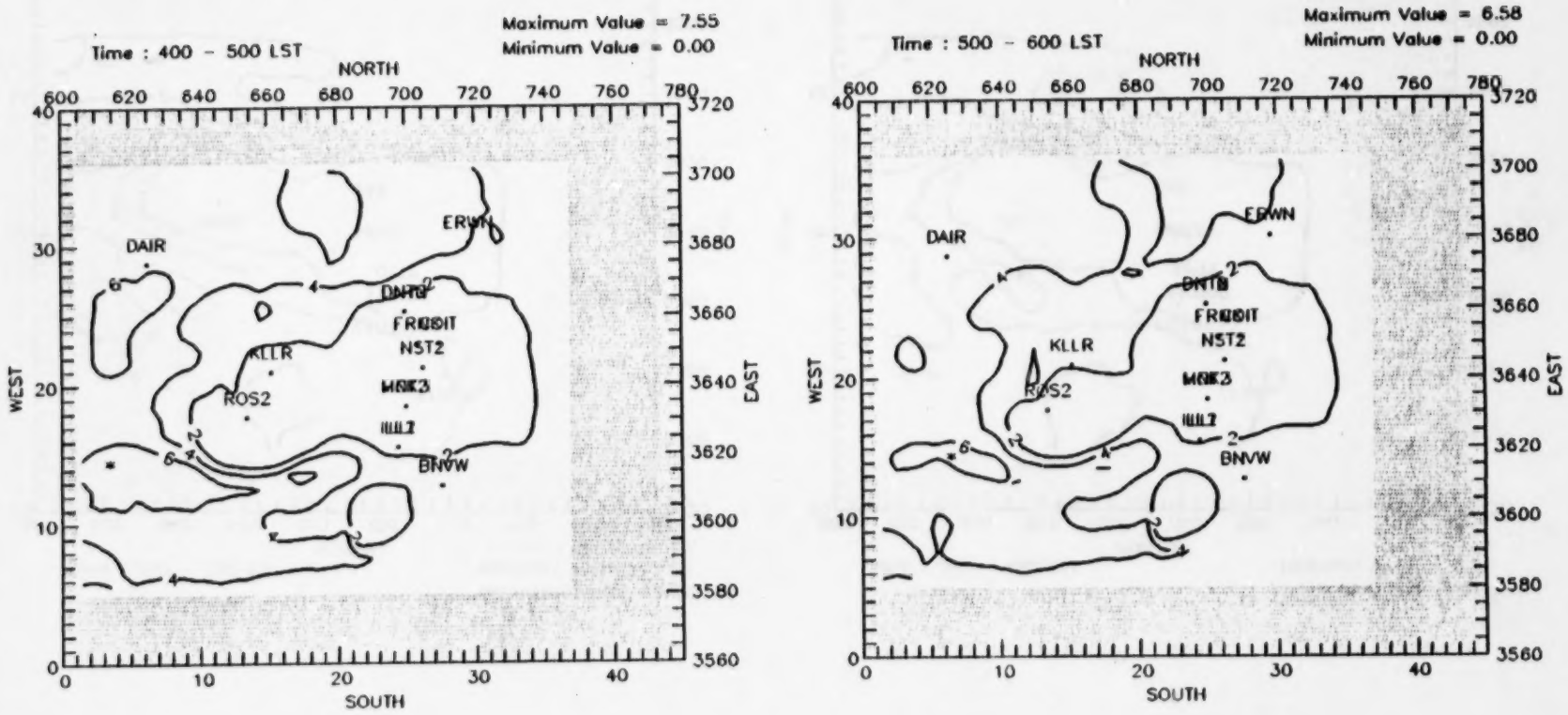
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario



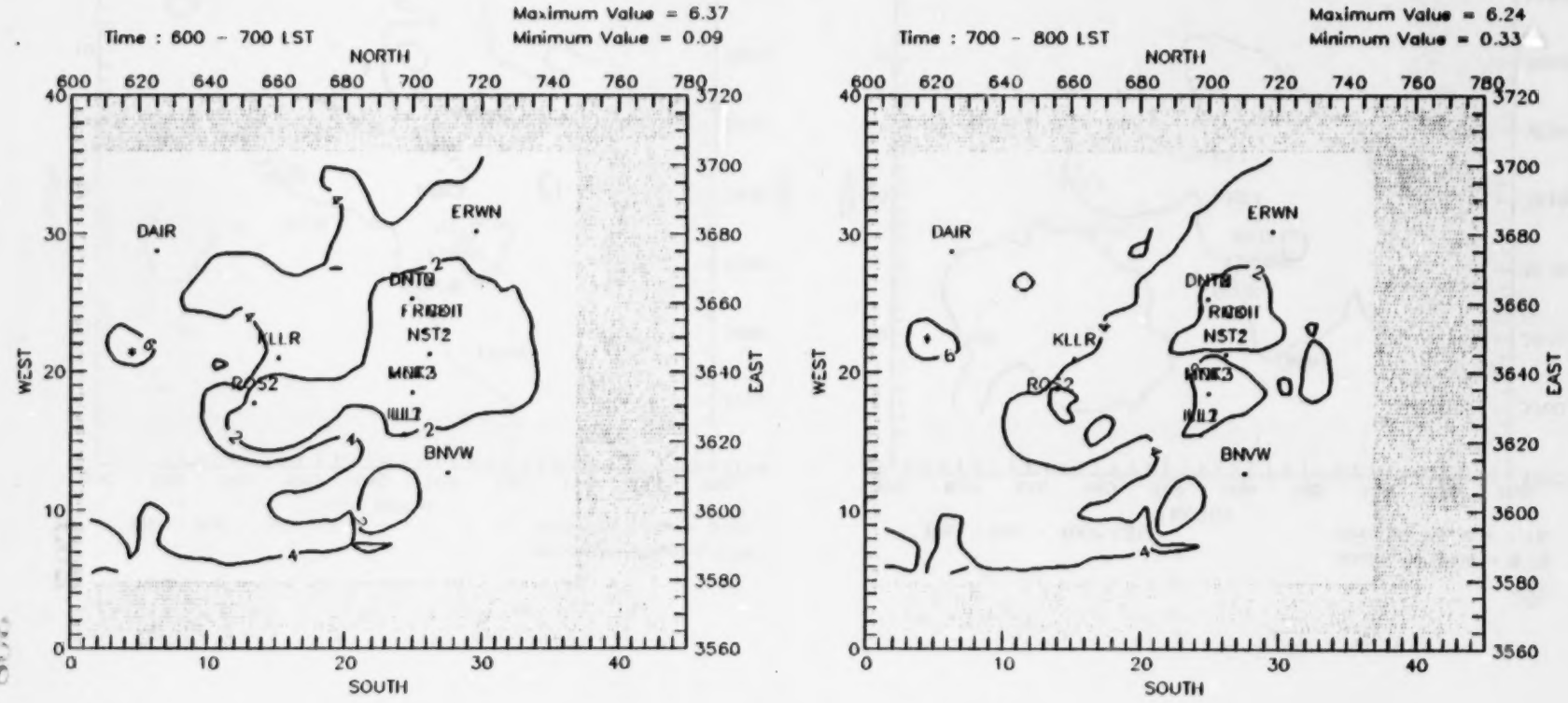
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.



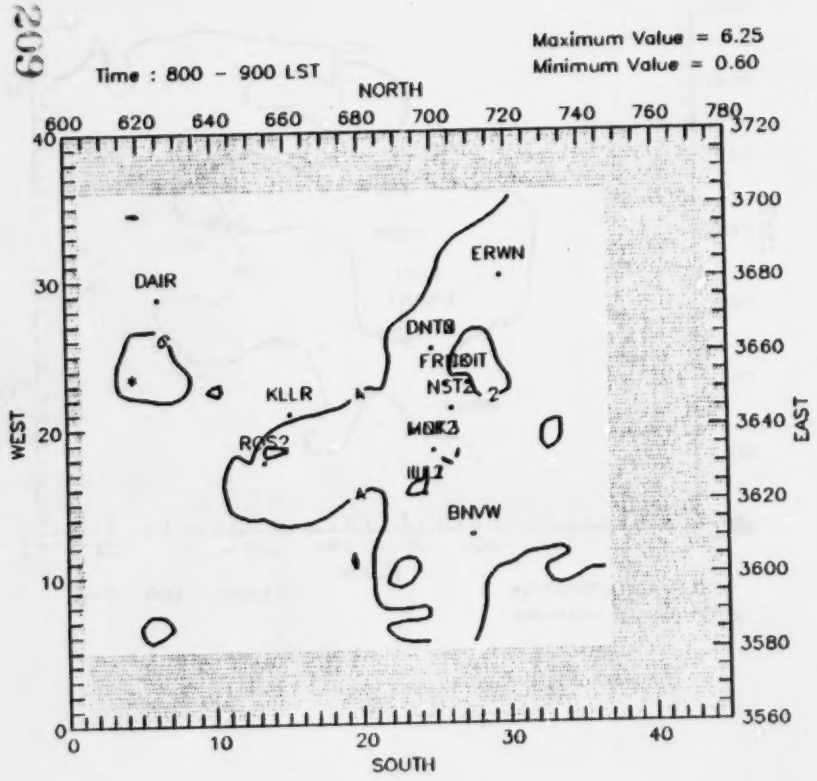
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.

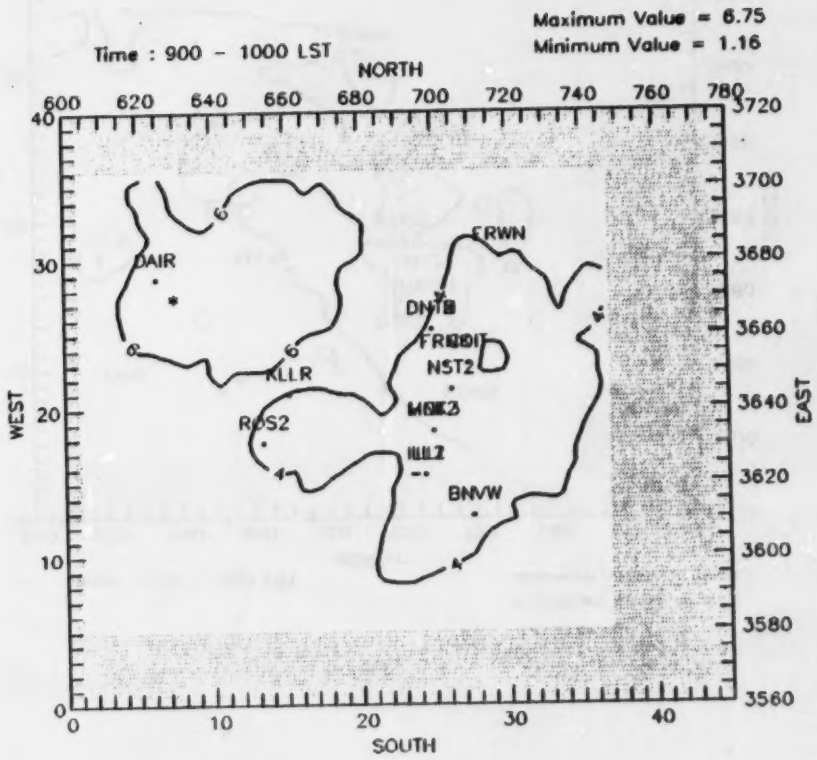


Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.

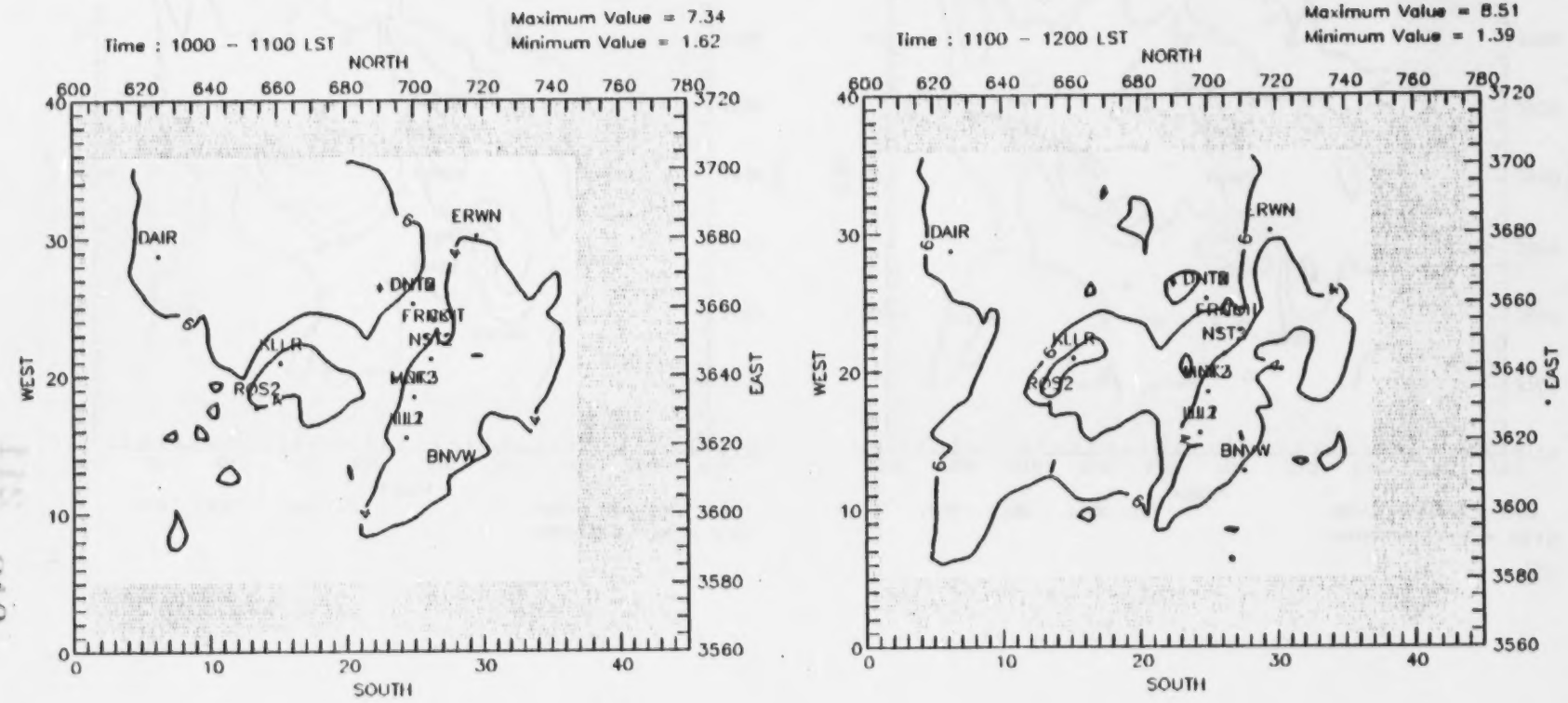


Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.

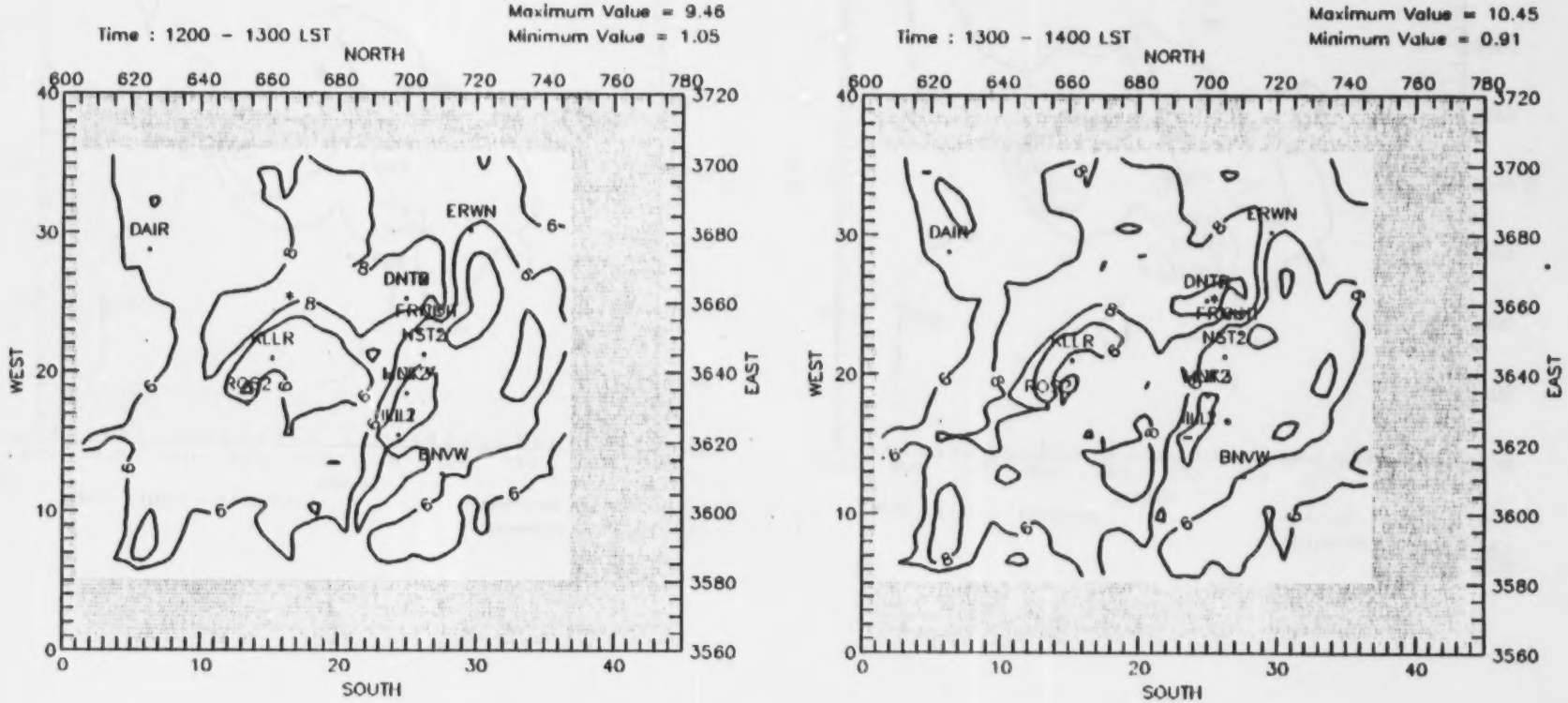




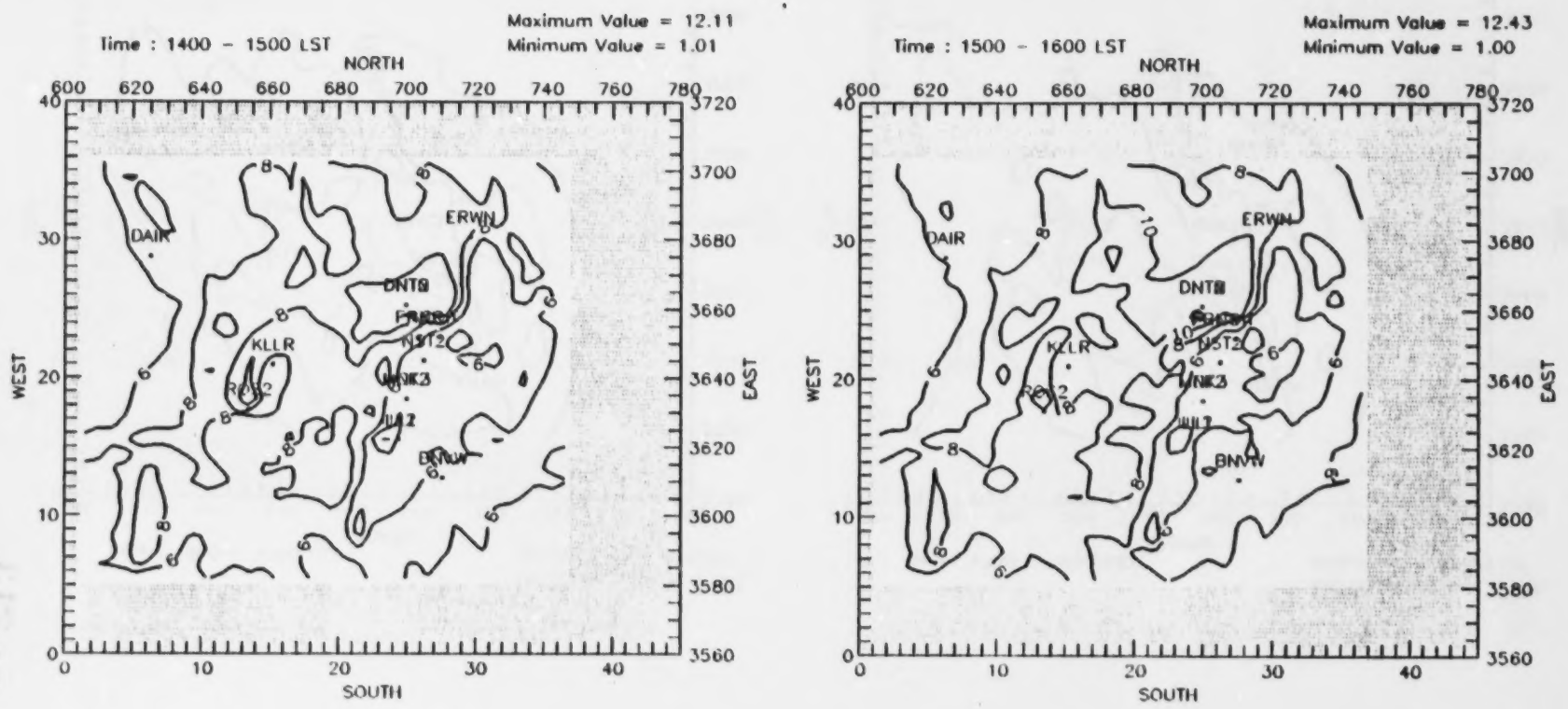
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.



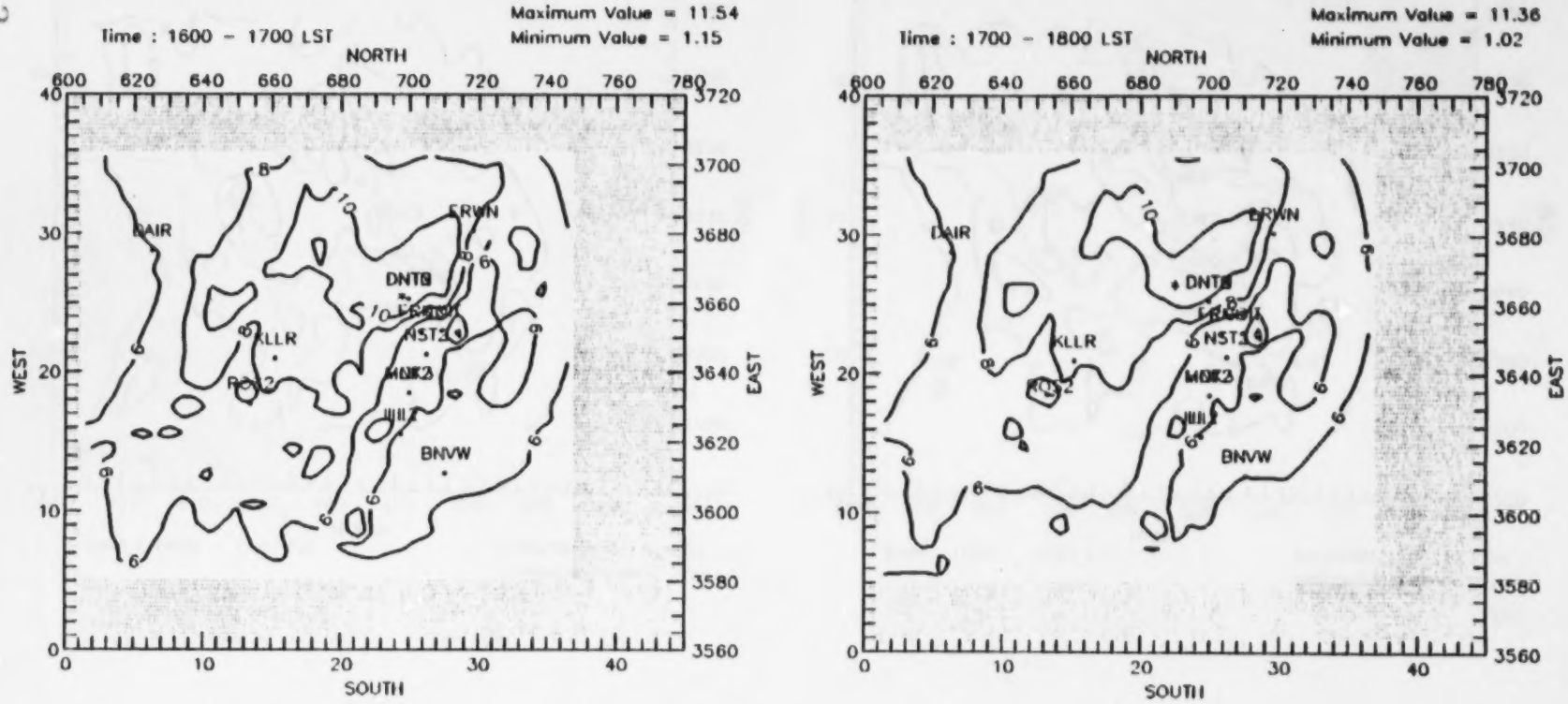
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.



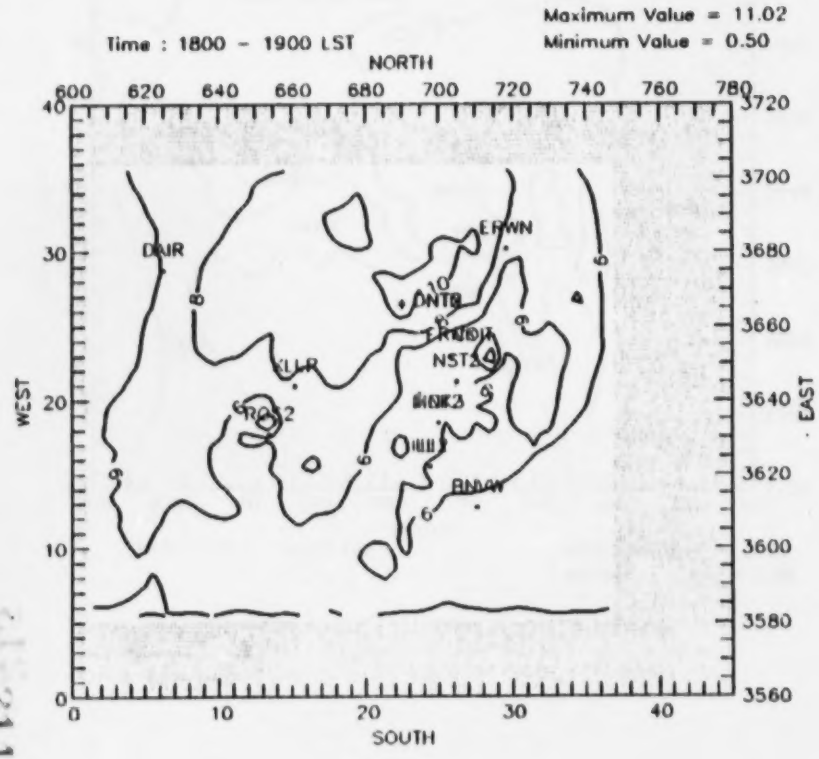
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.

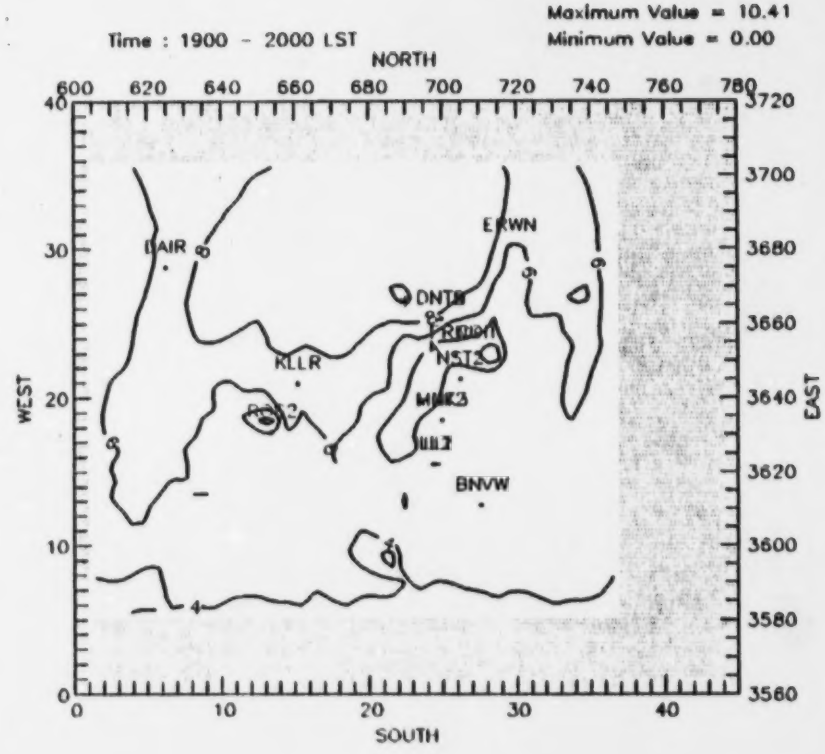


Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.

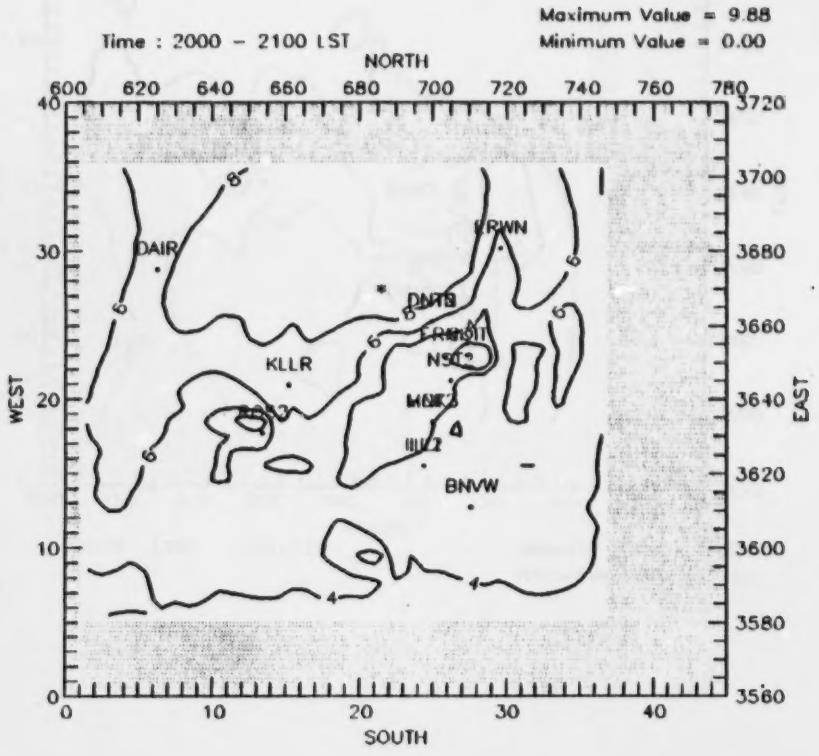


Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.





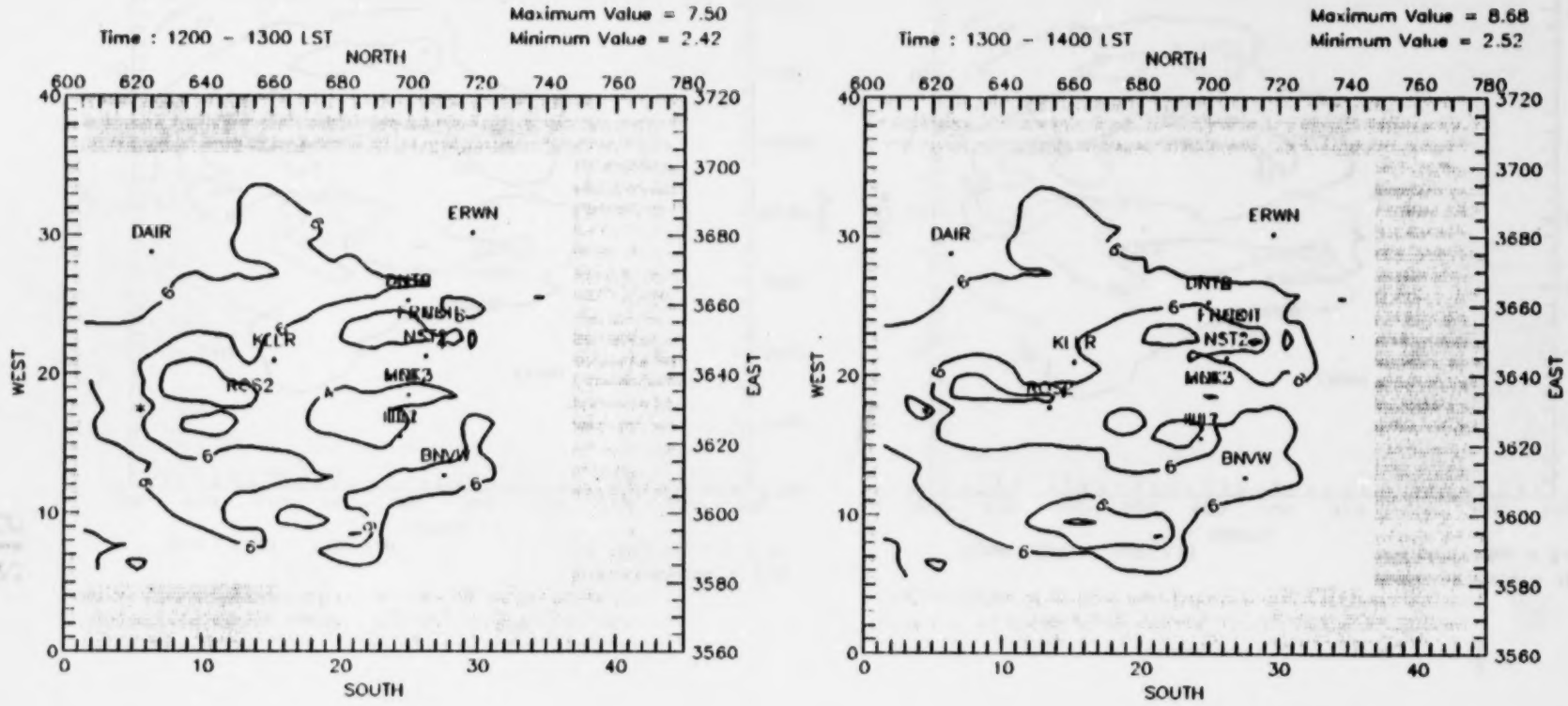
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.



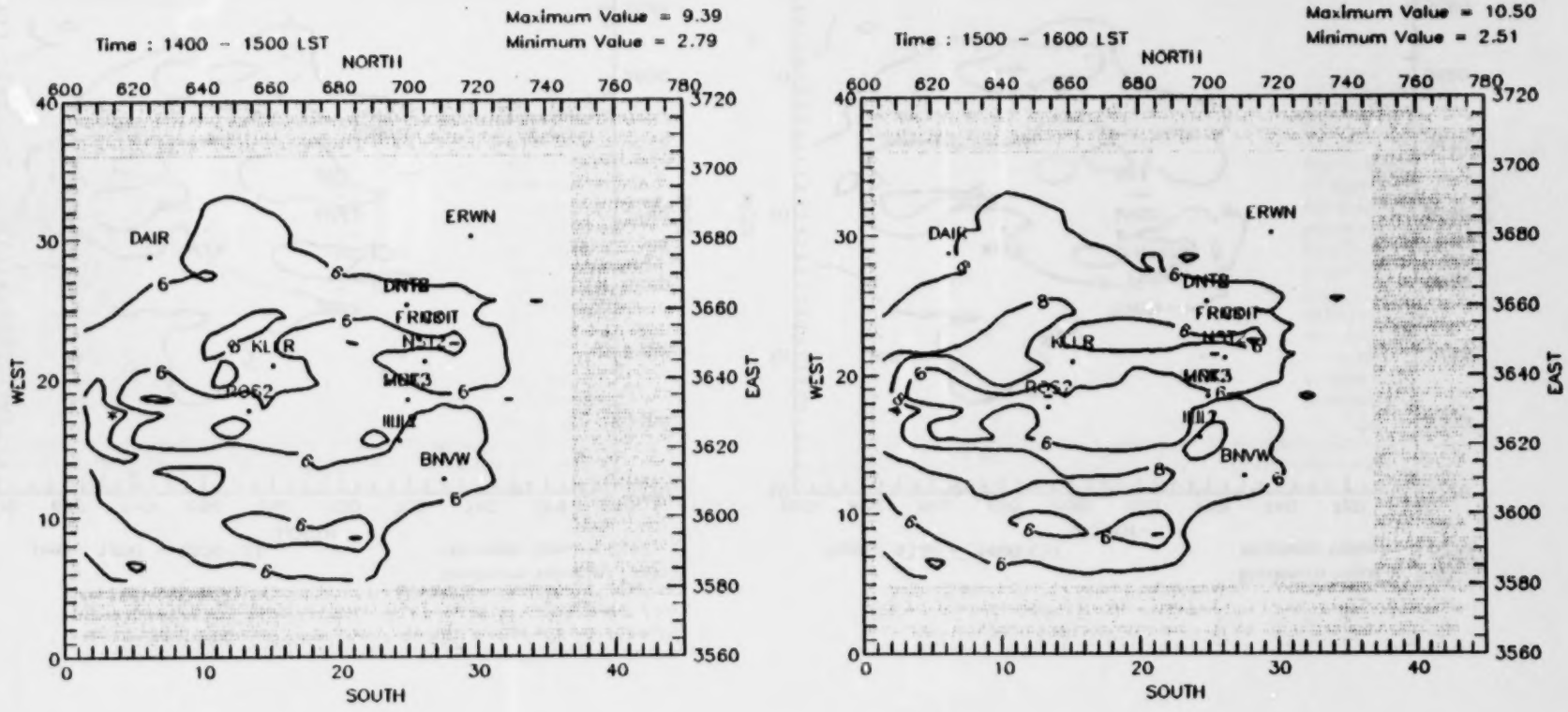
Predicted ozone concentrations (pphm) for Dallas 1995 m100 scenario on 31 August, 1985.

Appendix S

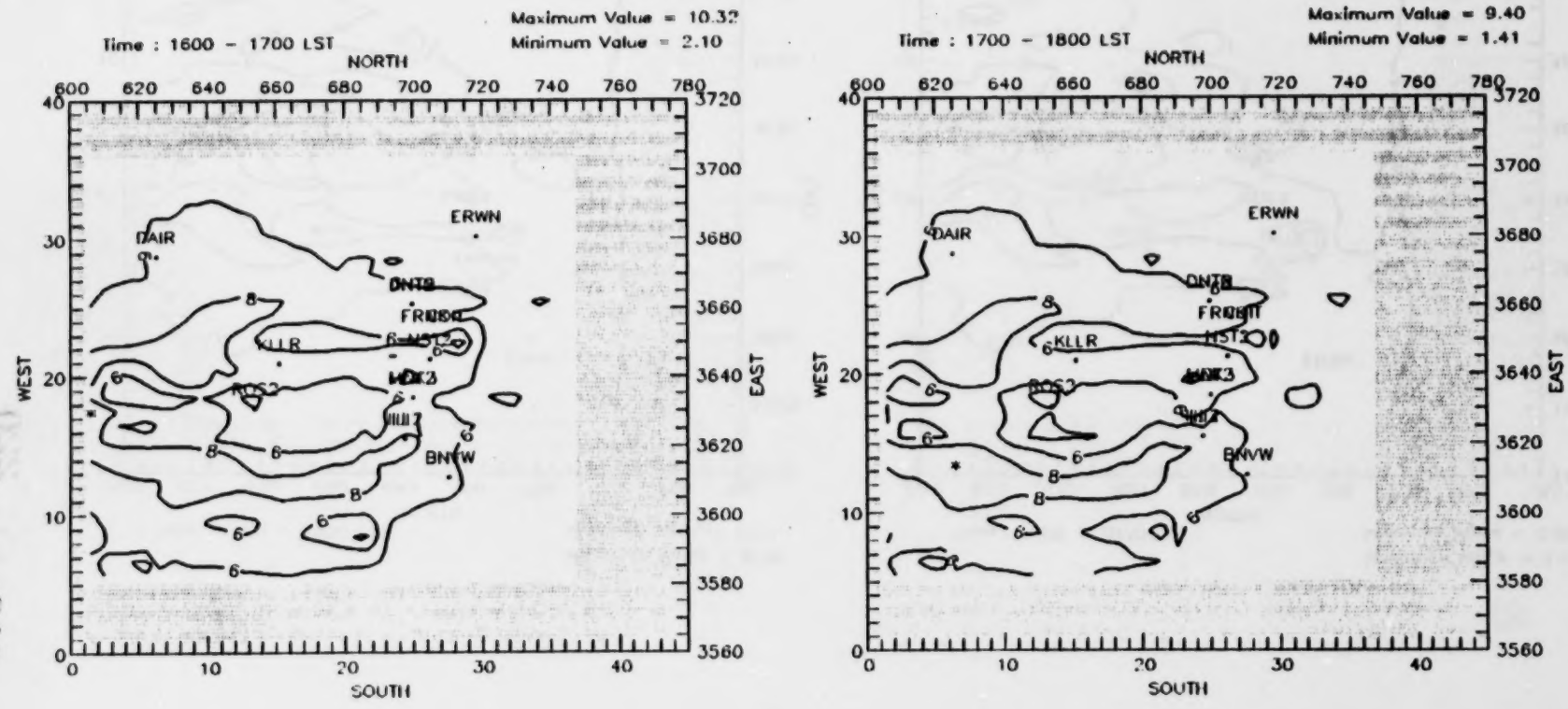
PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR DALLAS-FORT WORTH 1995 COMPRESSED NATURAL GAS (CNG) VEHICLE EMISSION SCENARIO



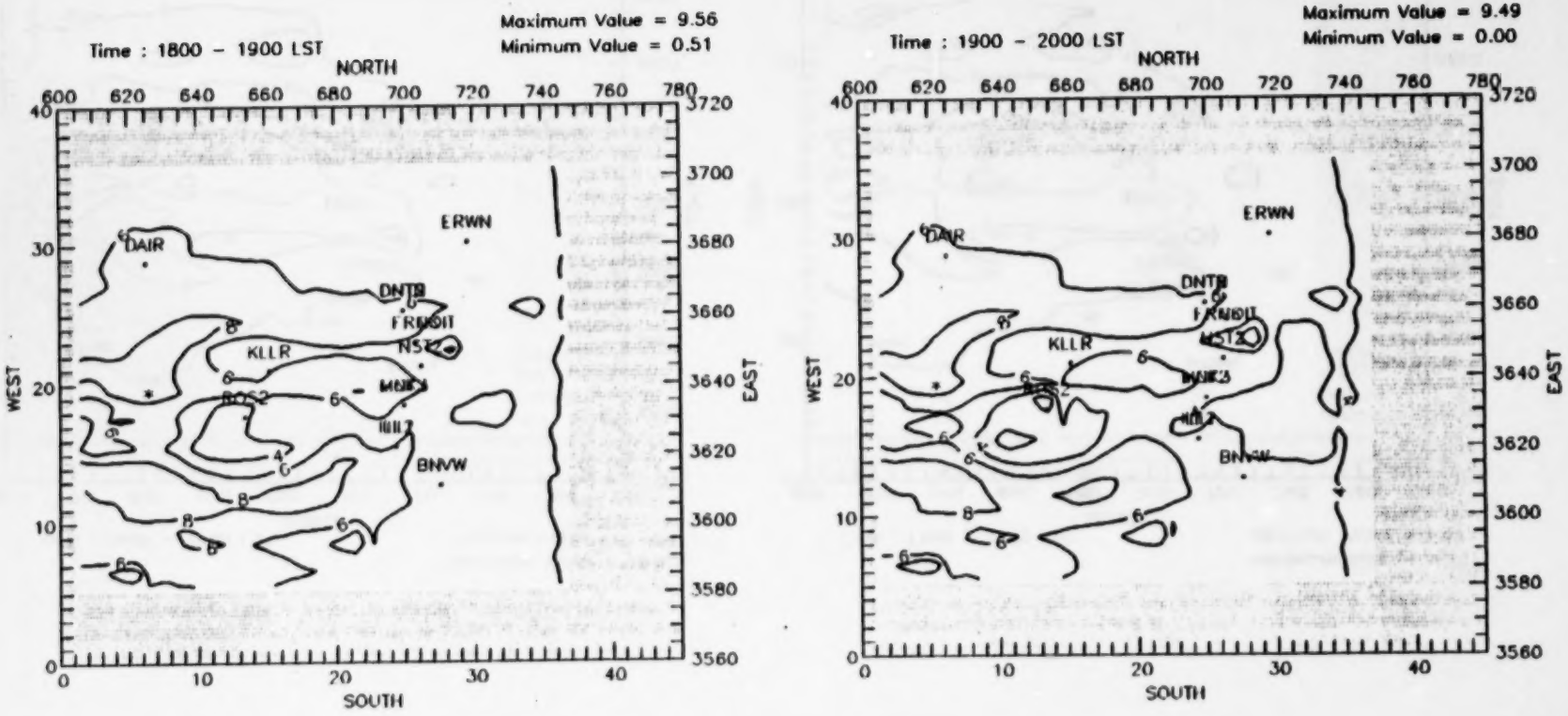
Predicted ozone concentrations (pphm) for 1995 cng scenario on 30 August, 1985.



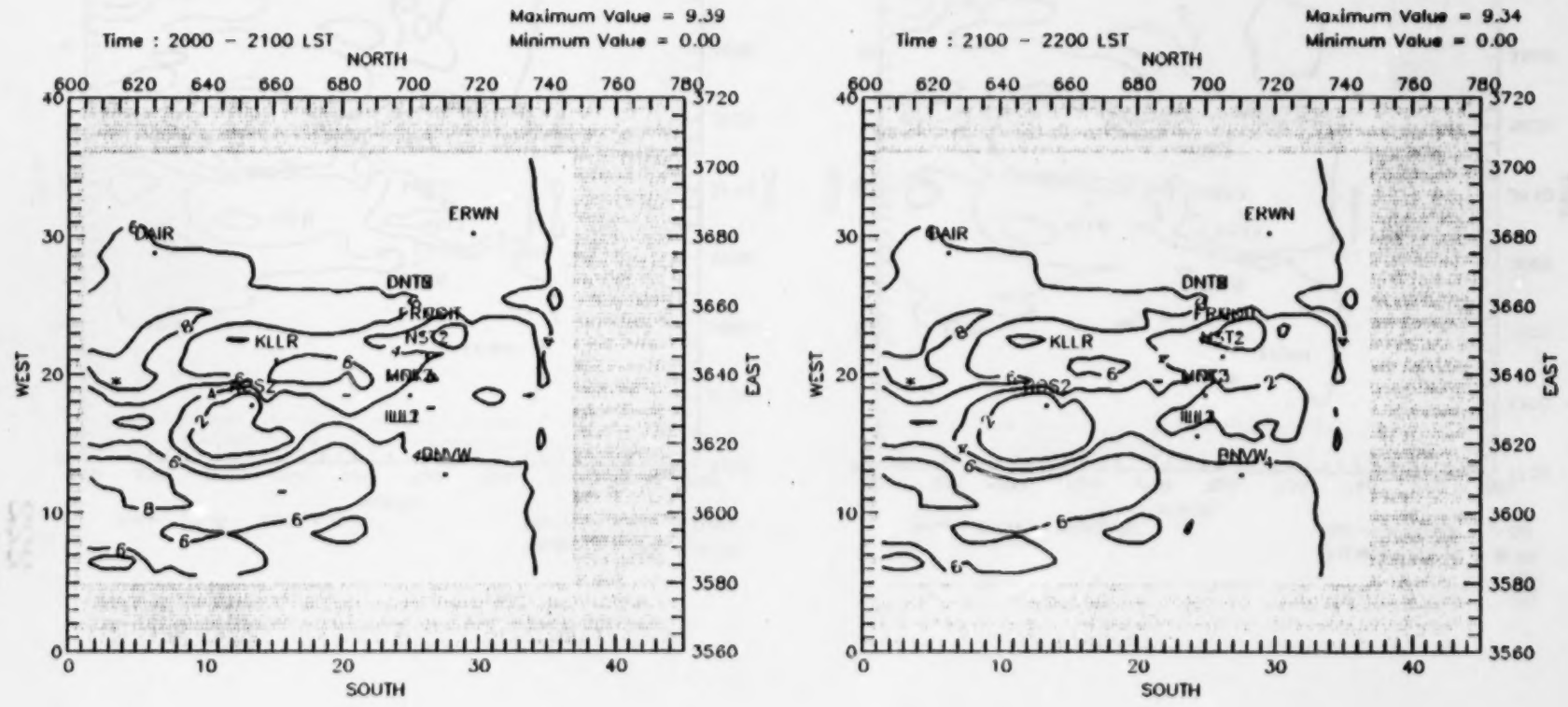
Predicted ozone concentrations (pphm) for 1995 cng scenario on 30 August, 1985.



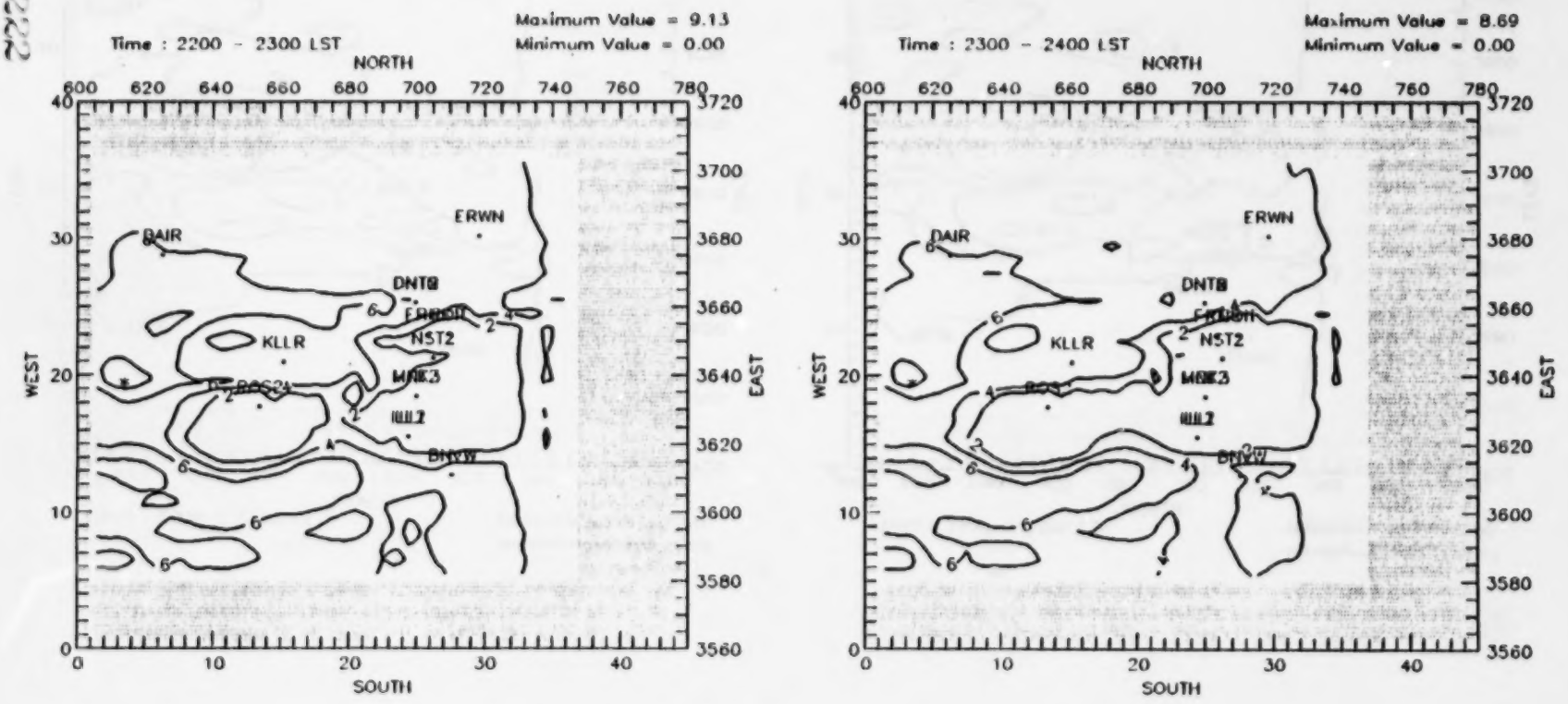
Predicted ozone concentrations (pphm) for 1995 cng scenario on 30 August, 1985.



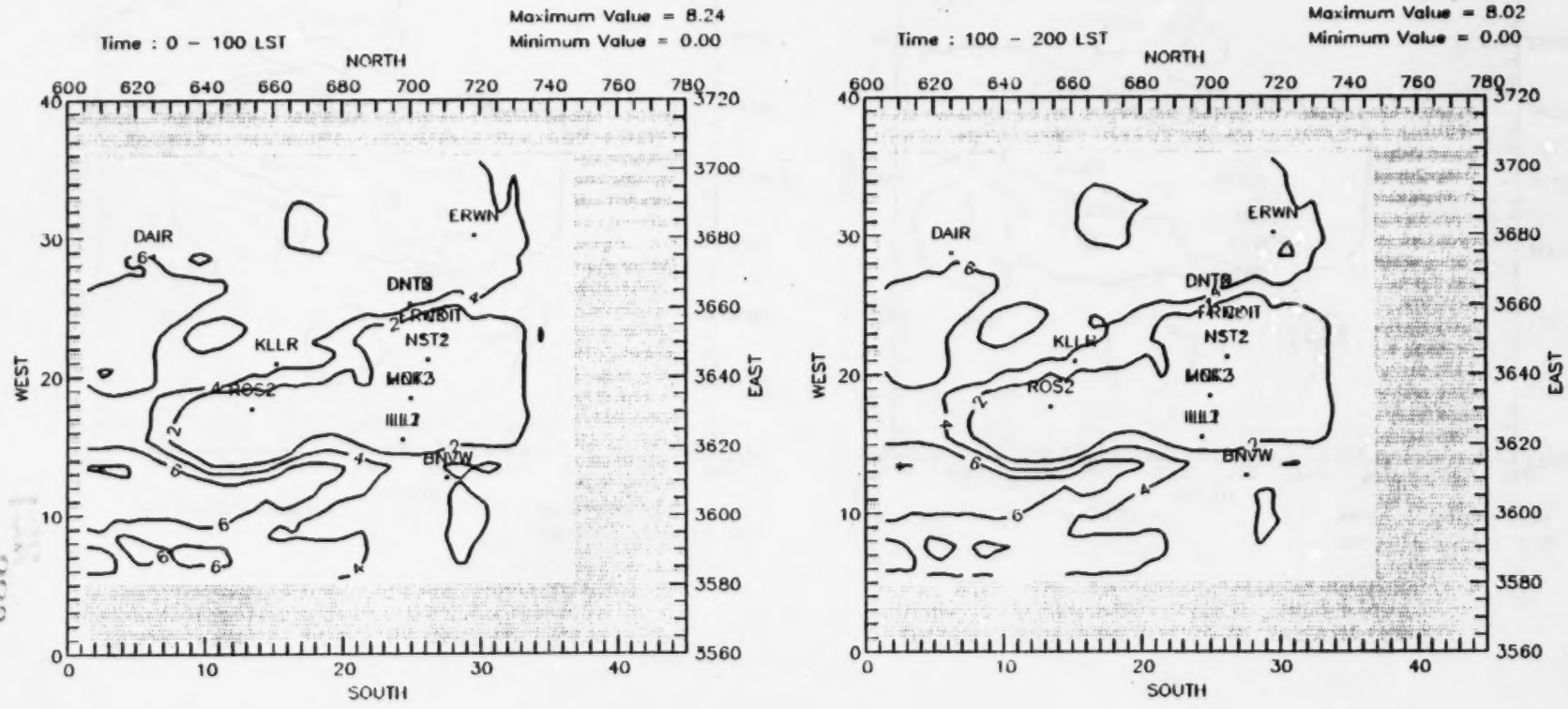
Predicted ozone concentrations (pphm) for 1995 cng scenario on 30 August, 1985.



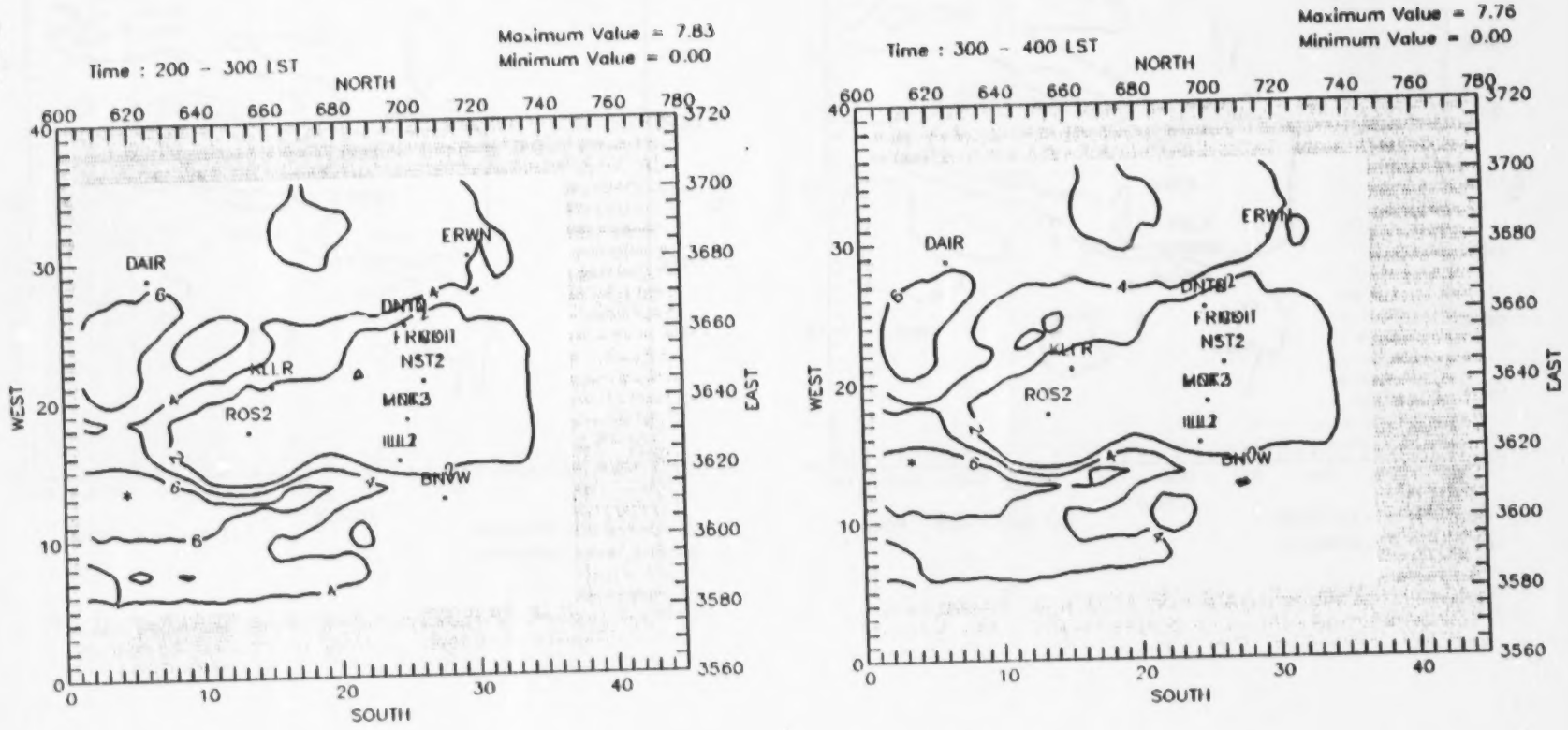
Predicted ozone concentrations (pphm) for 1995 cng scenario on 30 August, 1985.



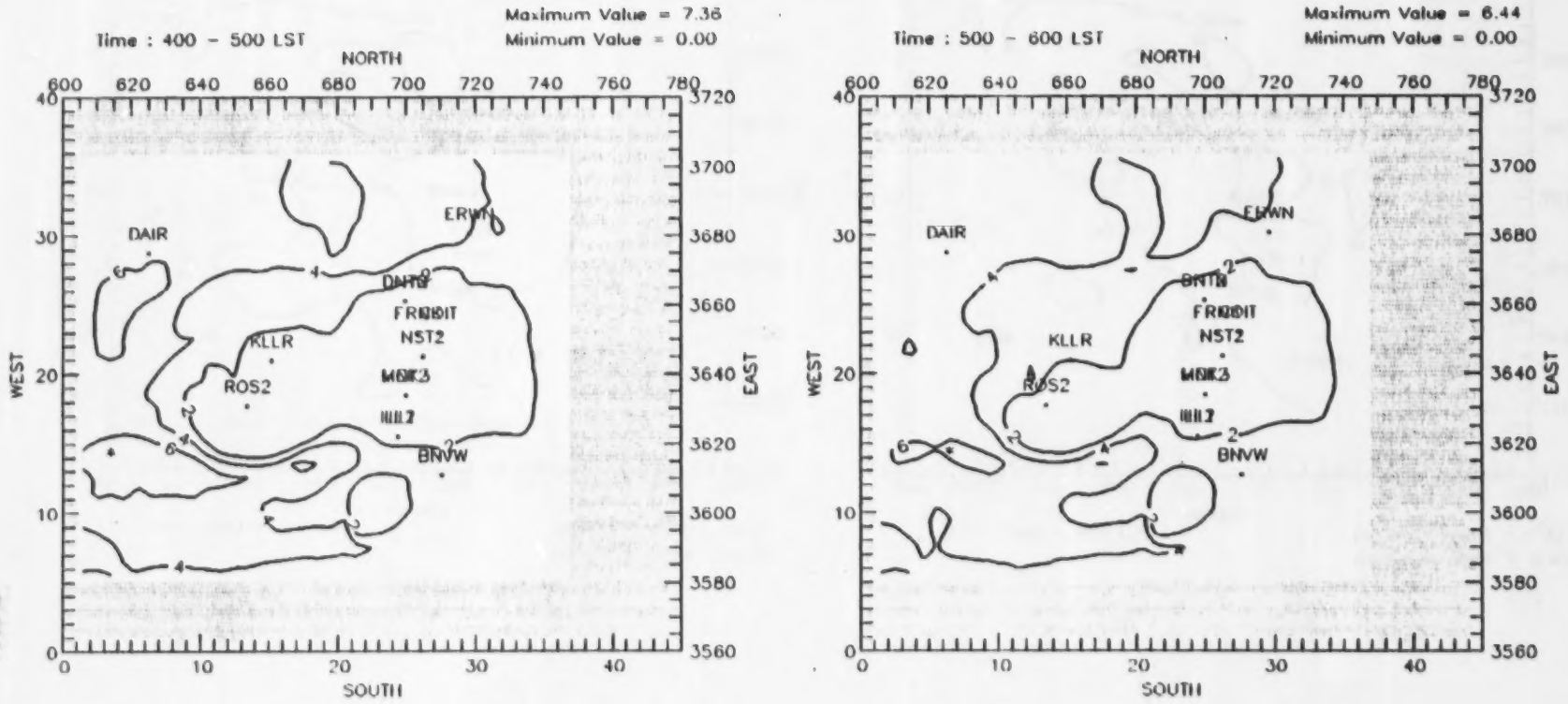
Predicted ozone concentrations (pphm) for 1995 cng scenario on 30 August, 1985.



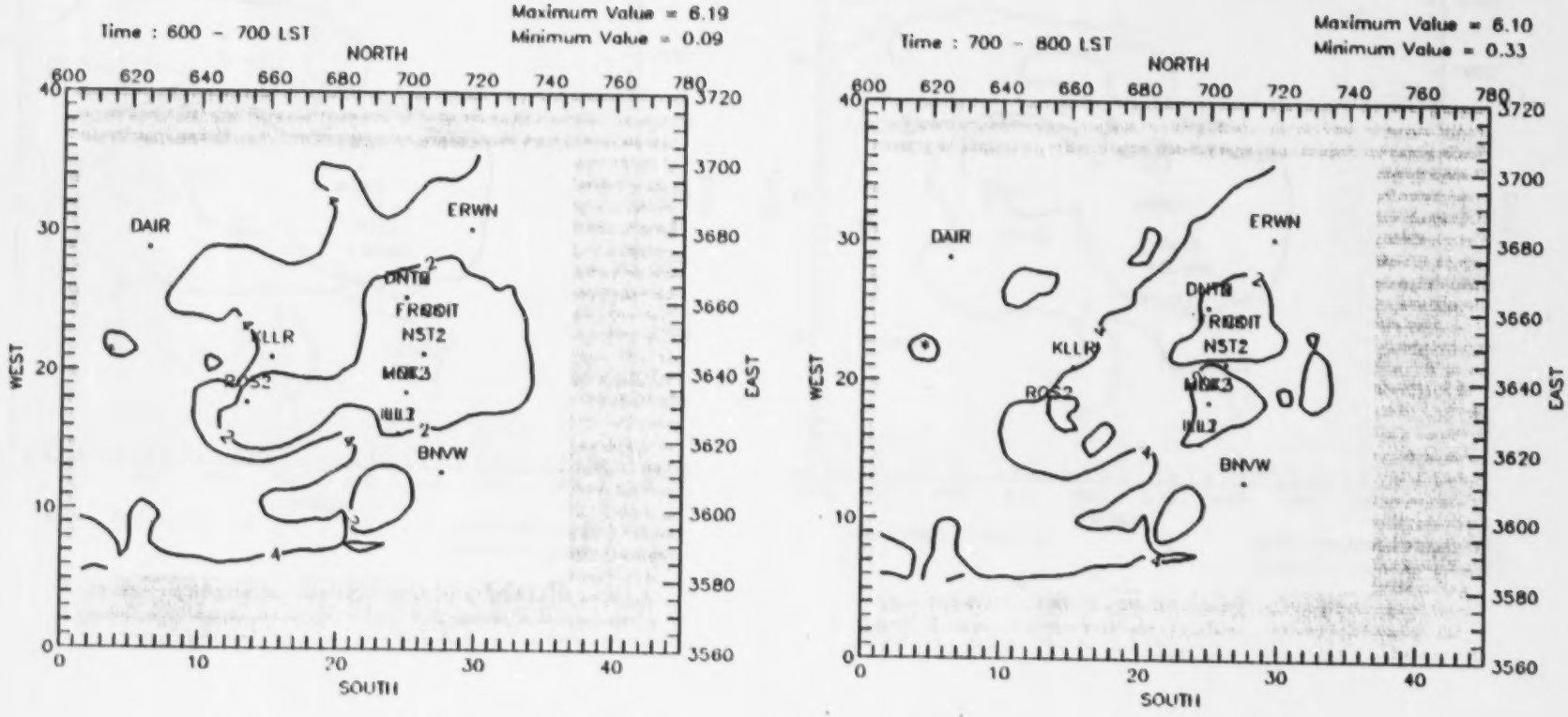
Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.



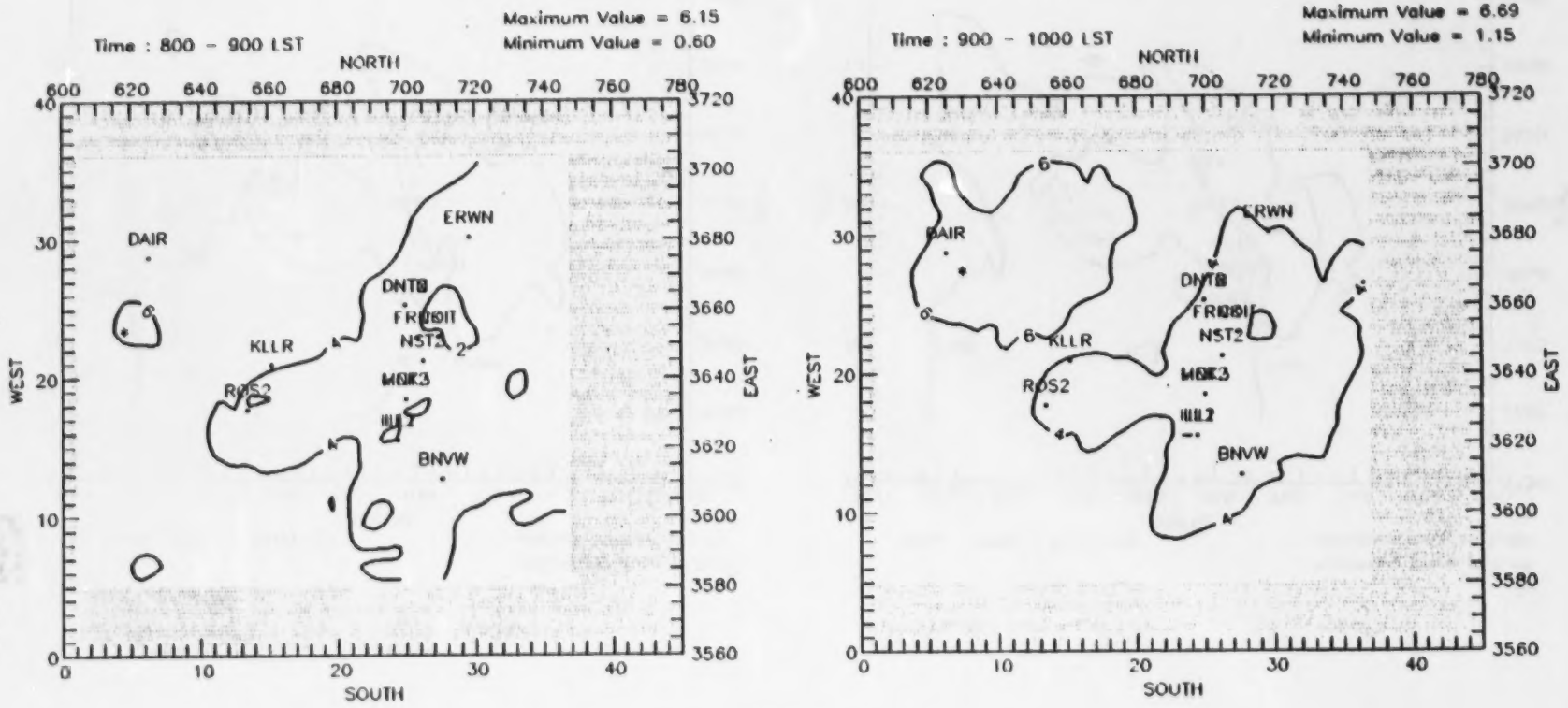
Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.



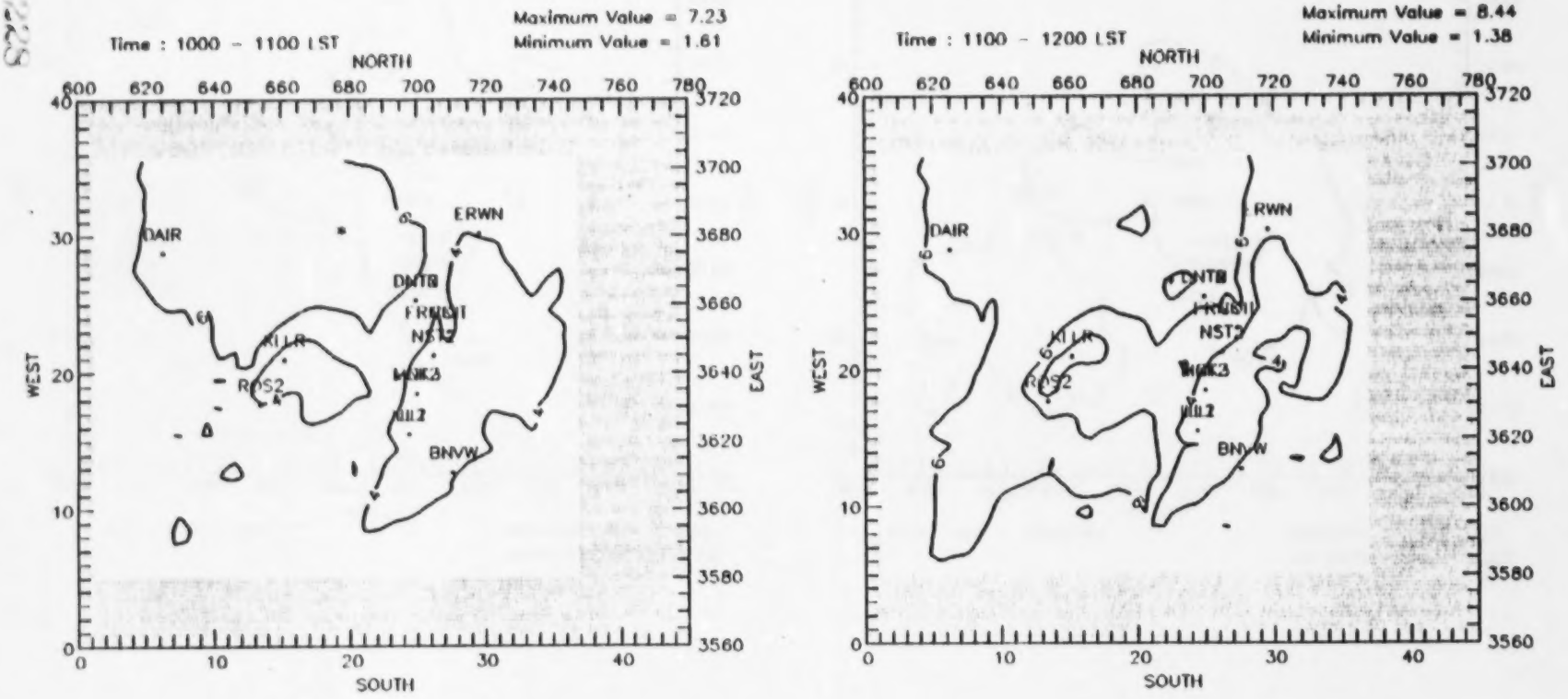
Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.



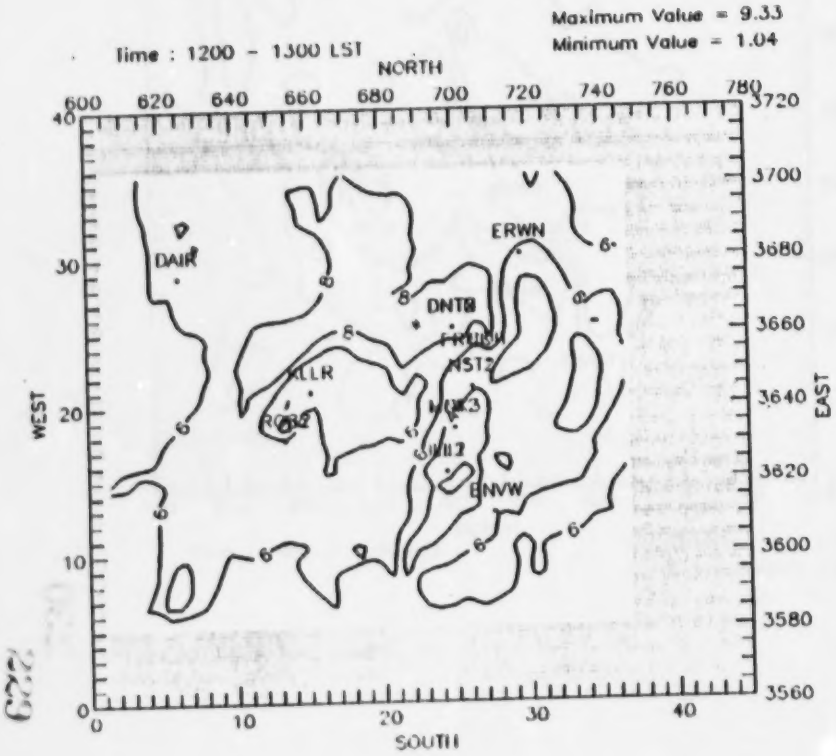
Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.

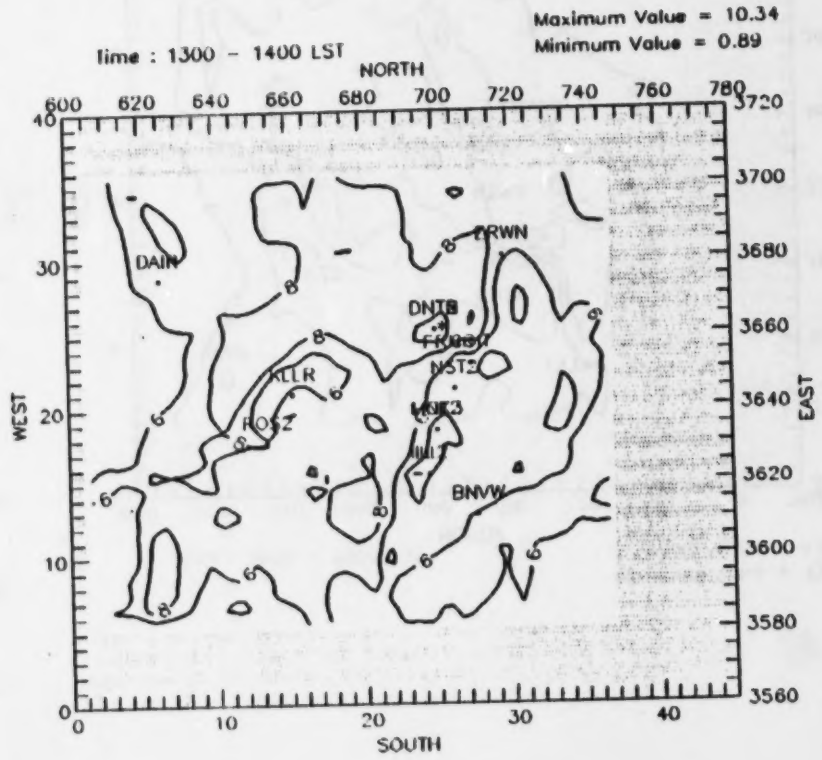


Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.

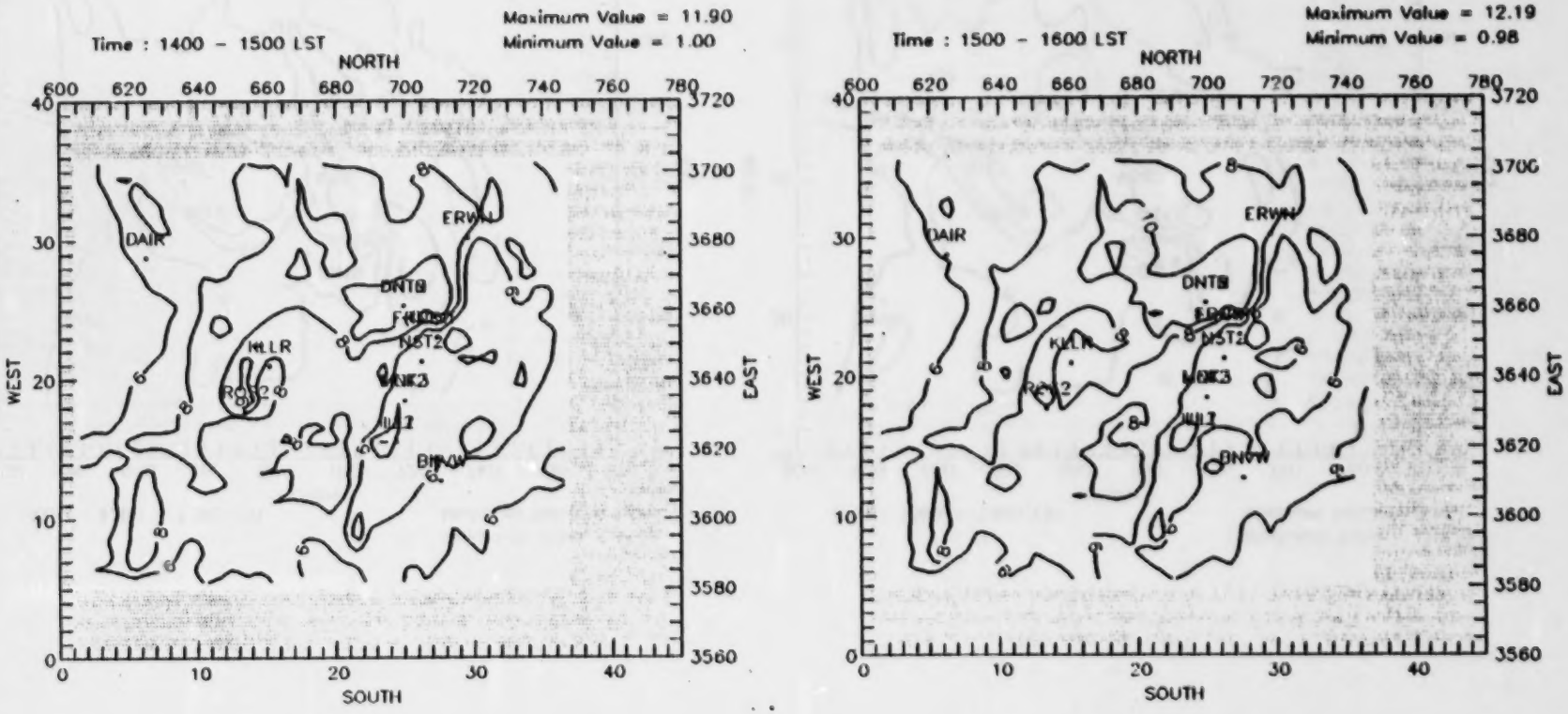


Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.

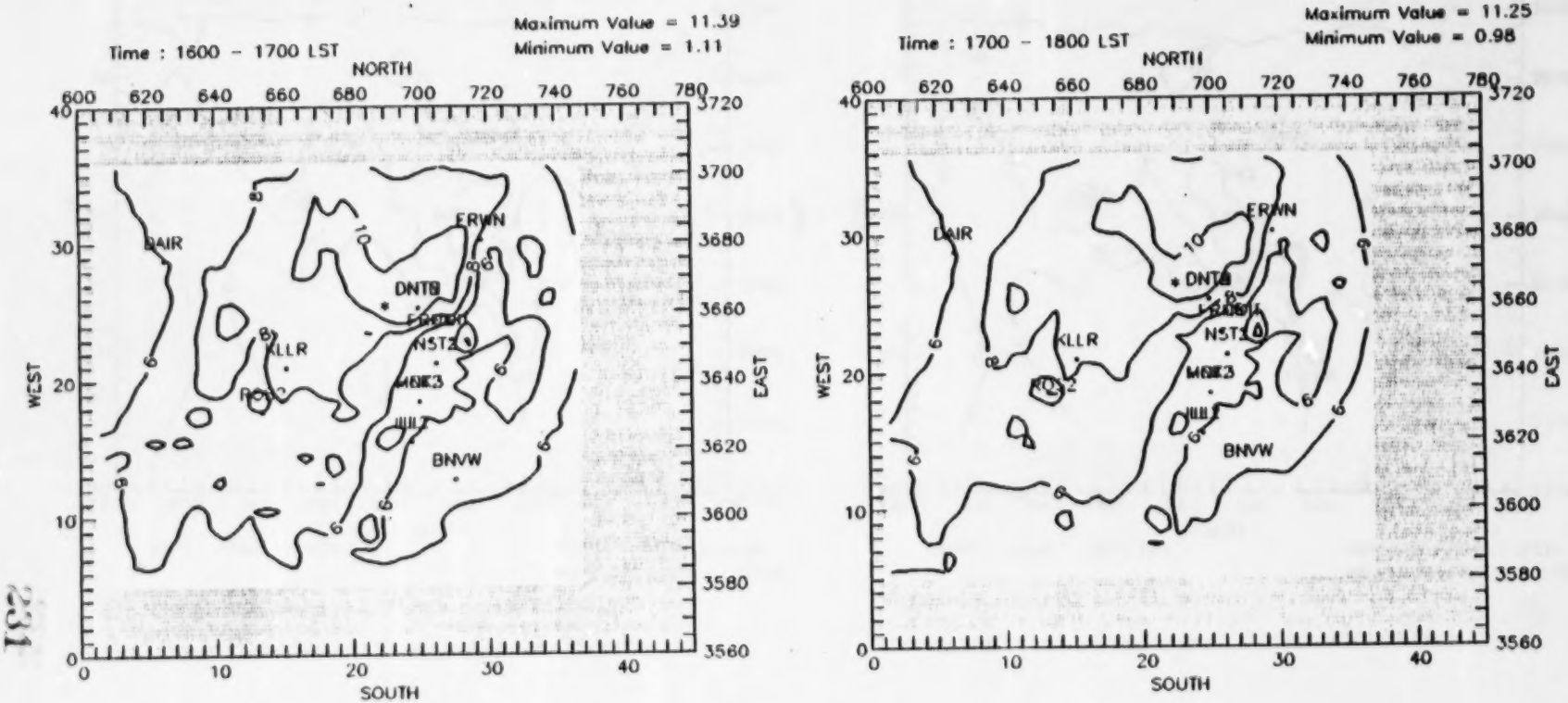




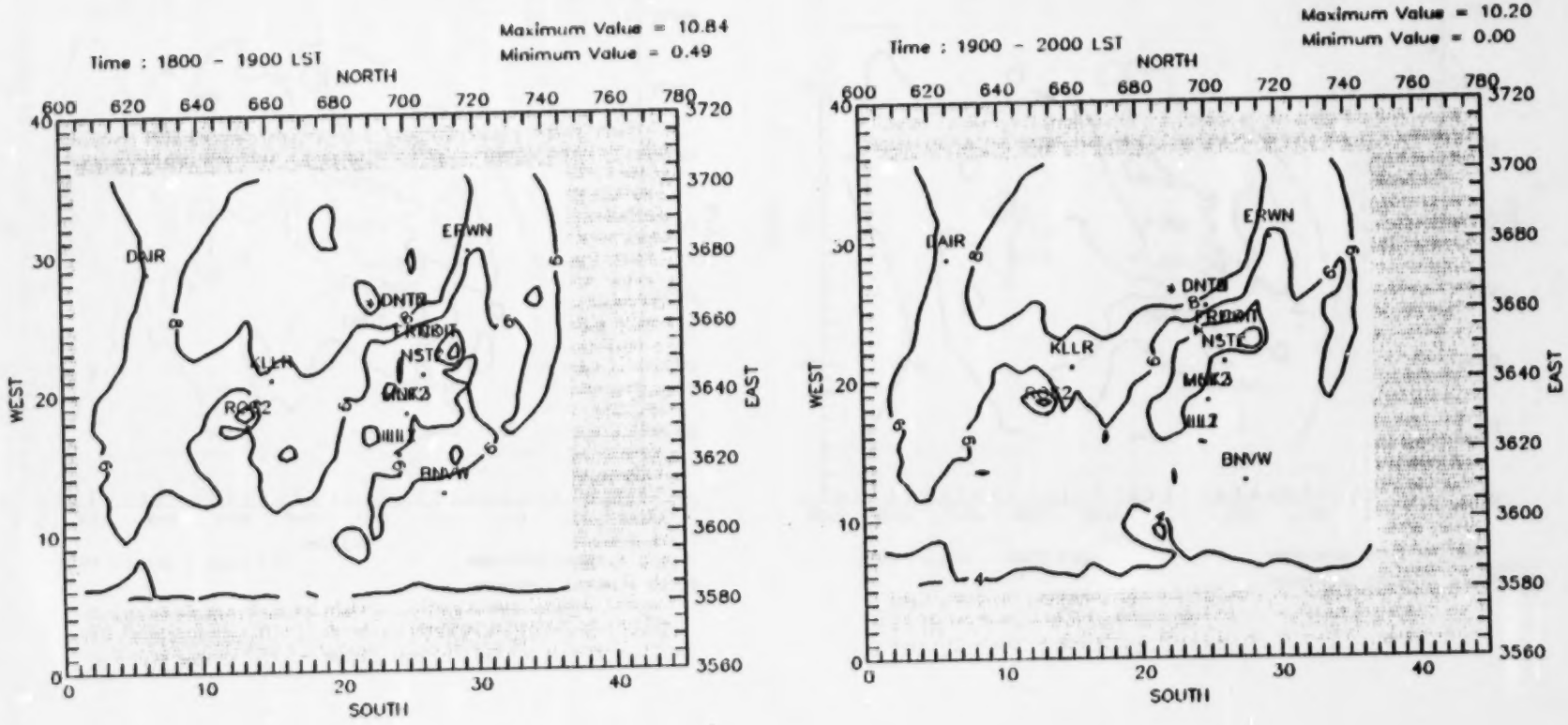
Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.



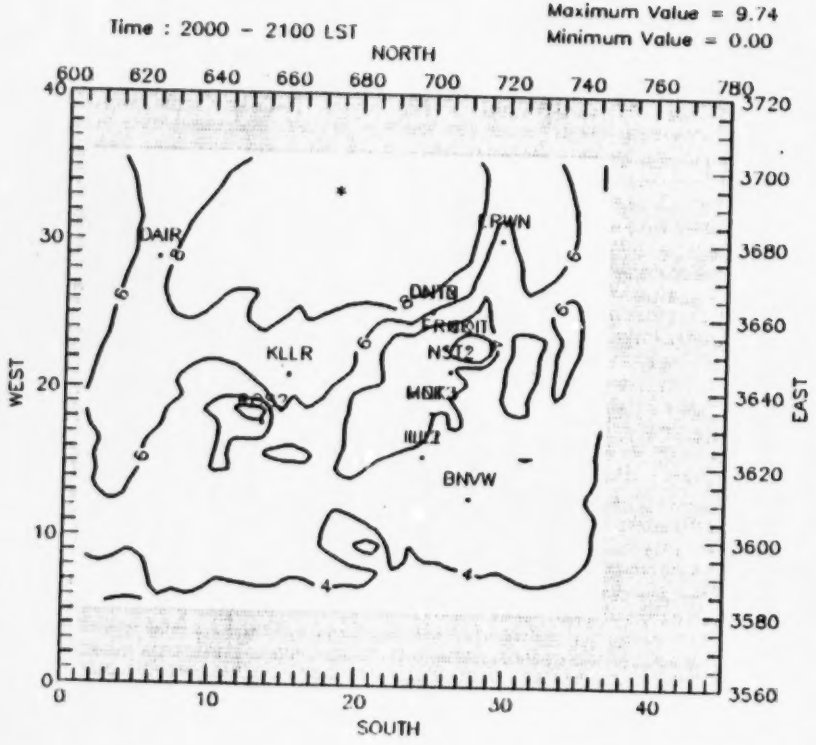
Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.



Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.



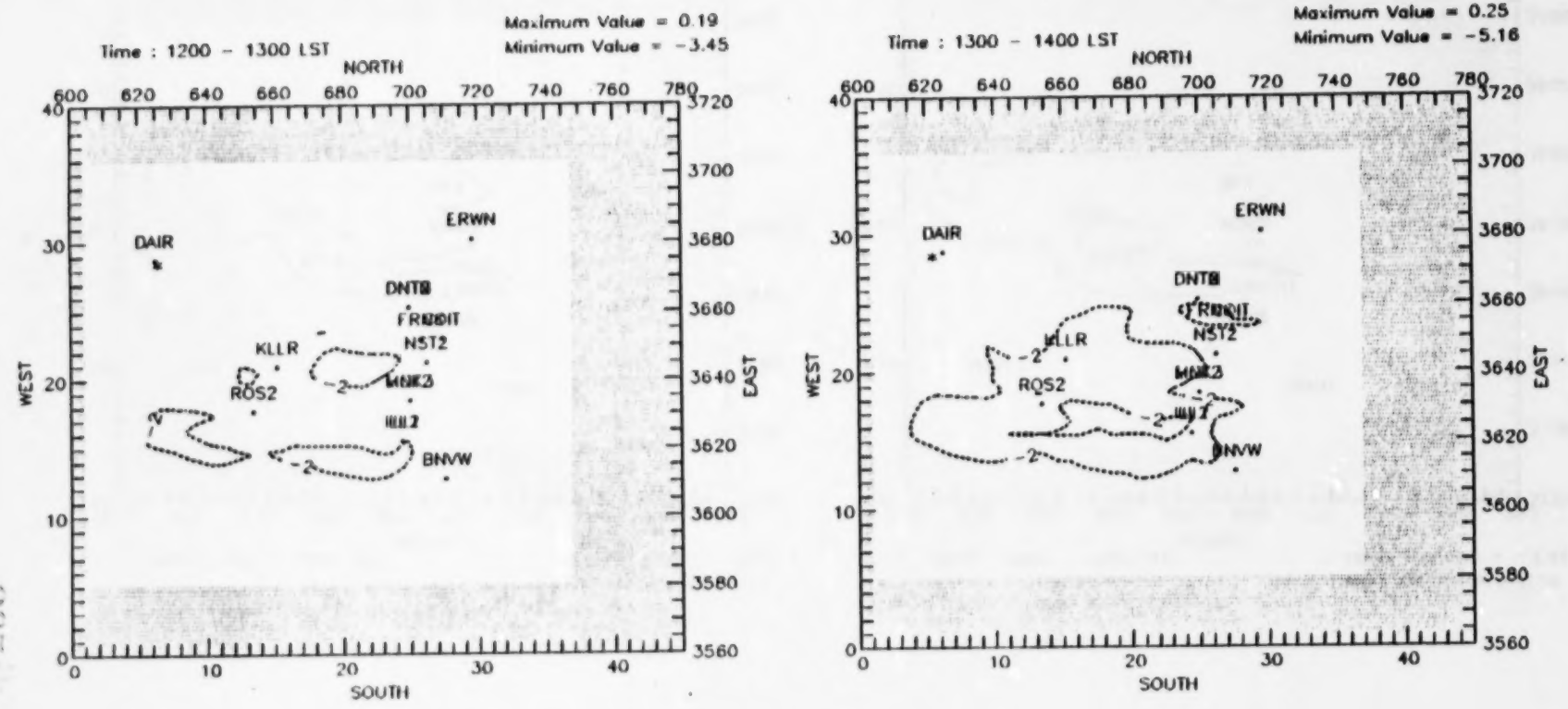
Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.



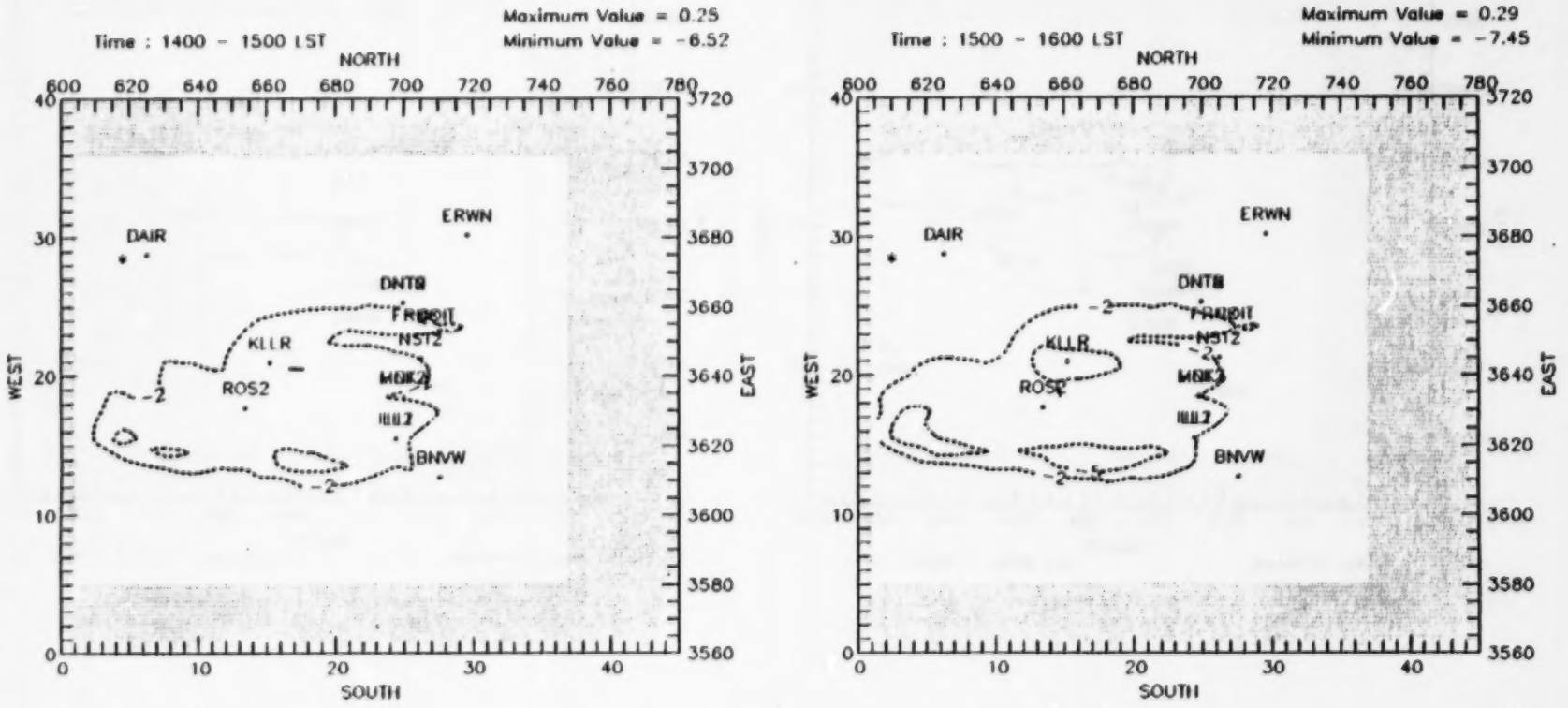
Predicted ozone concentrations (pphm) for 1995 cng scenario on 31 August 1985.

Appendix T

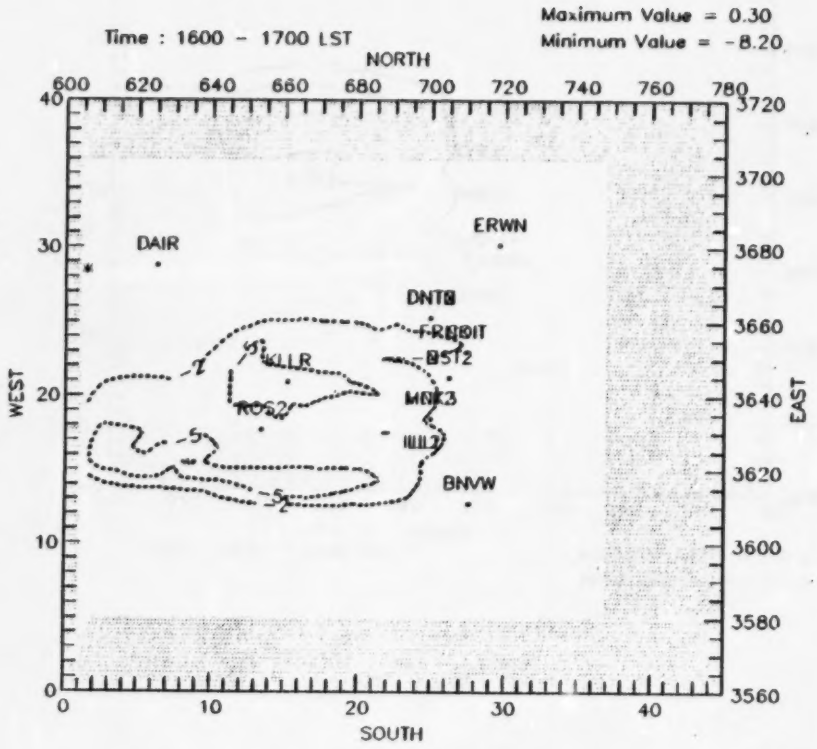
DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) FOR DALLAS-FORT WORTH 1995 NEW REGULATION GAS VEHICLE AND 1995 BASE CASE EMISSION SCENARIOS (NEW REGULATION GAS MINUS BASE CASE)

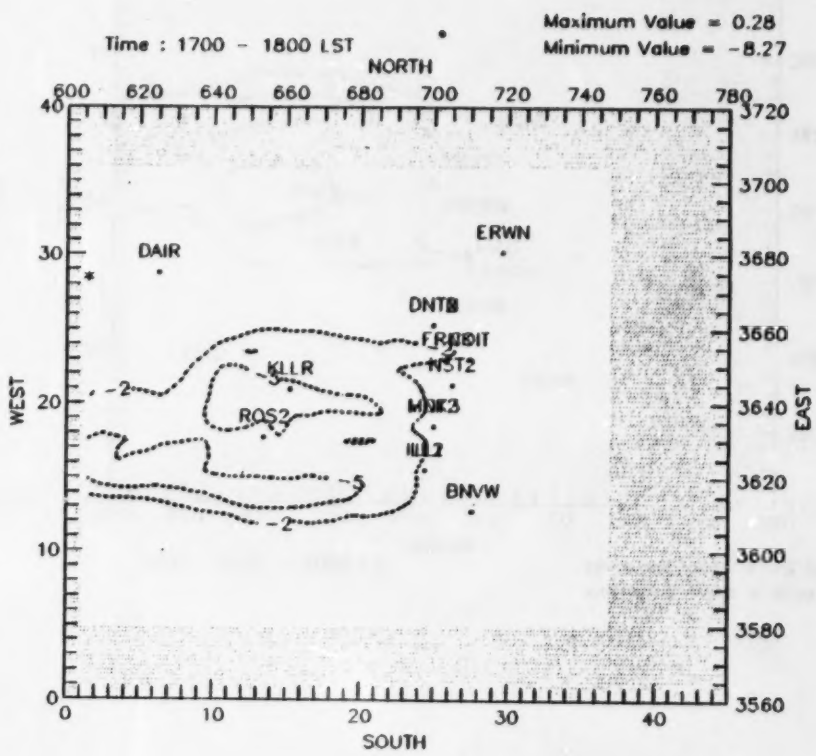


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 30 August, 1985.

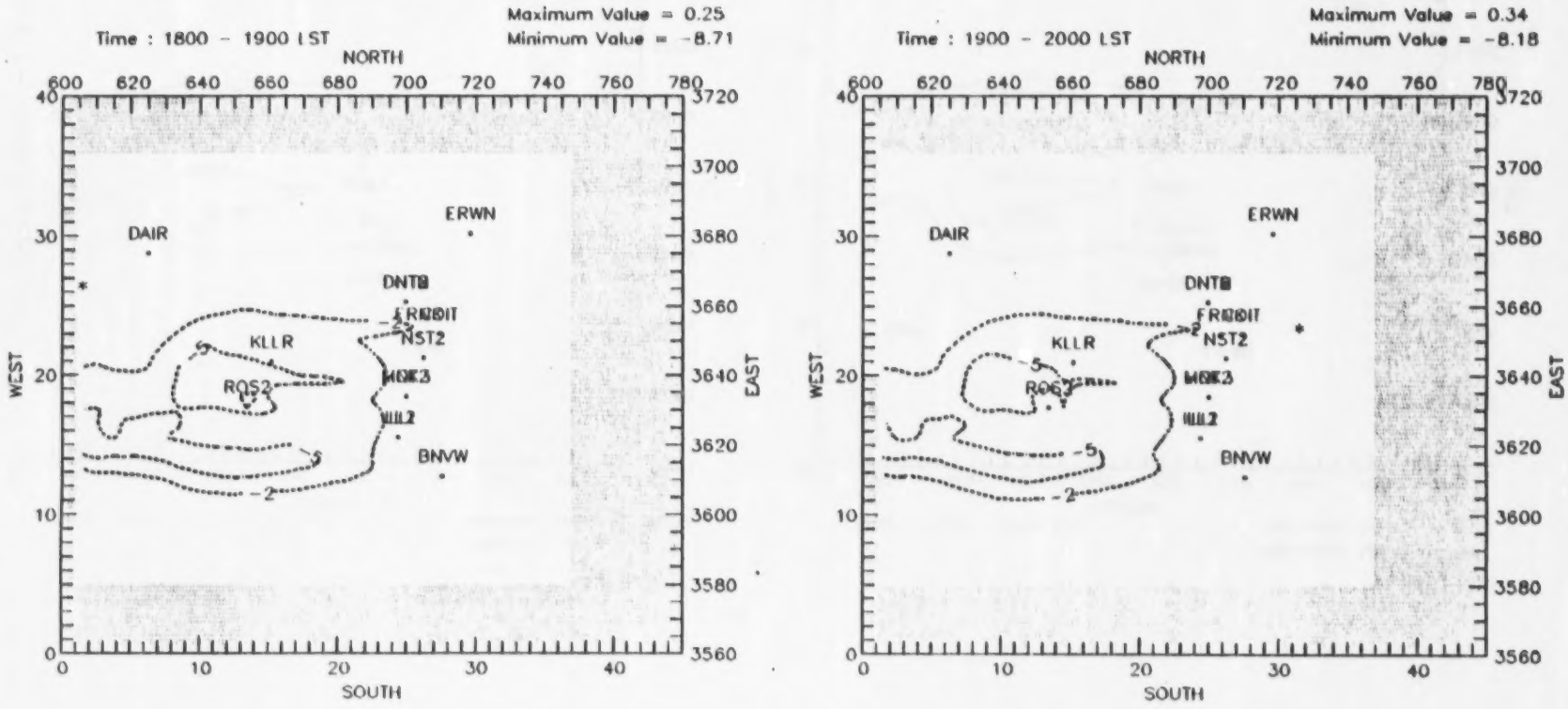


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 30 August, 1985.

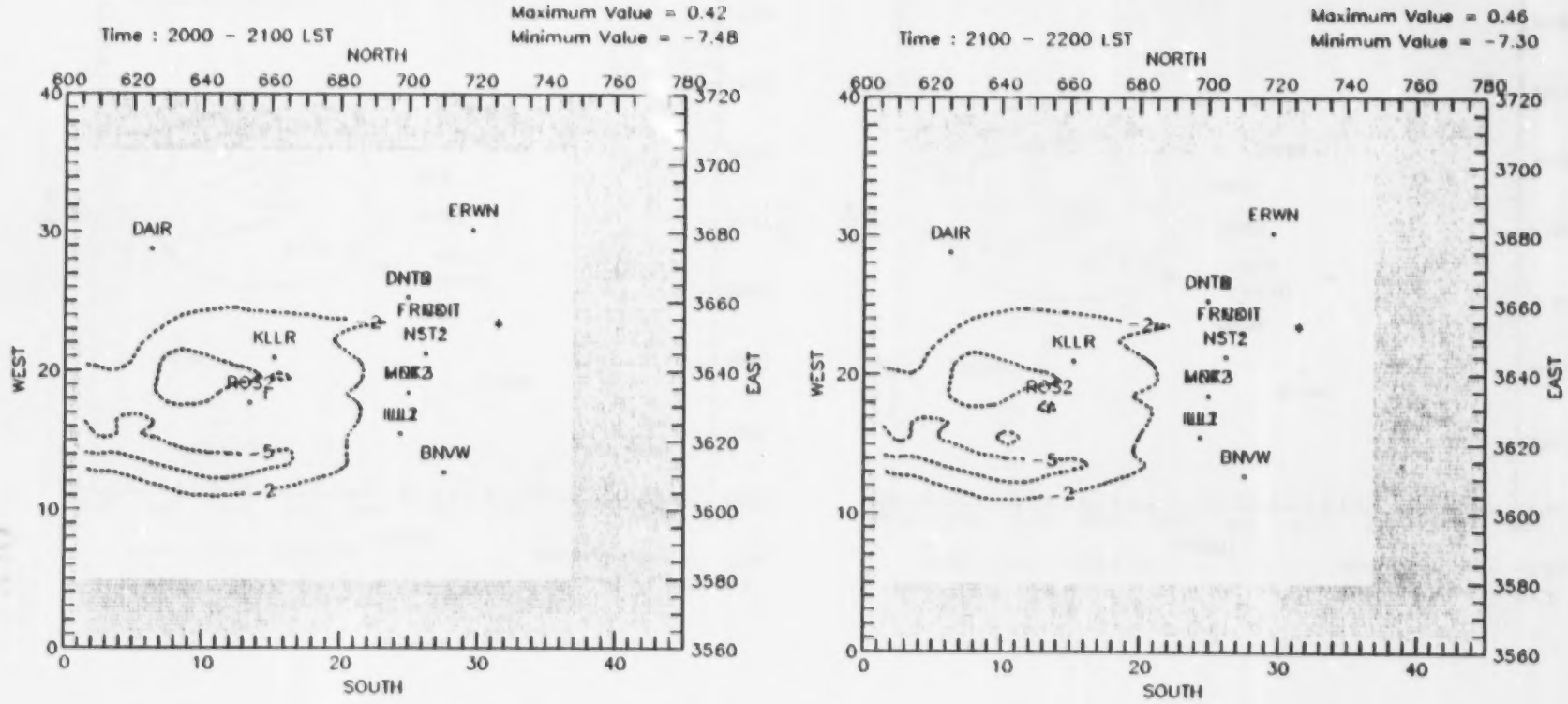




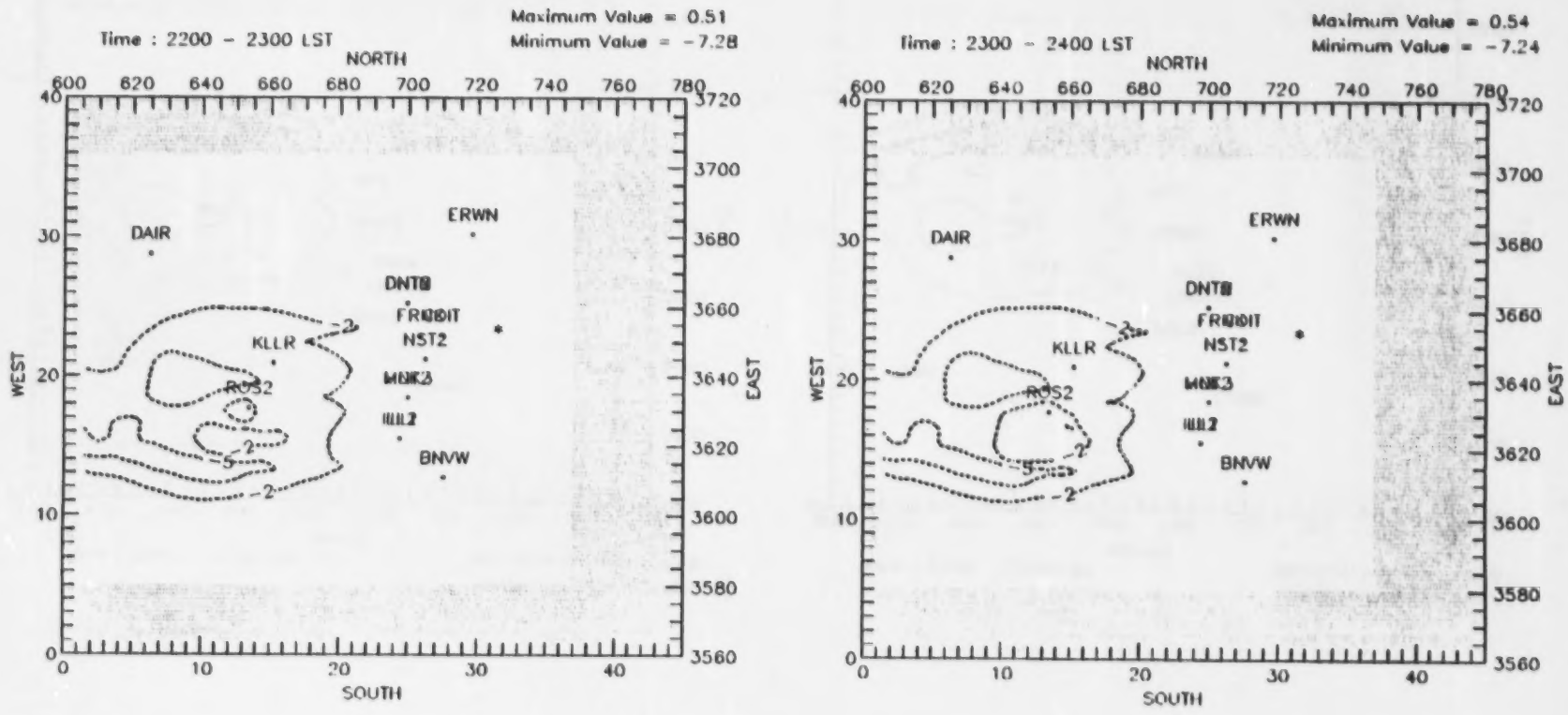
Differences in hourly ozone concentrations (ppb) for Dallas–Fort Worth between 1995 new reg gas and 1995 base case on 30 August, 1985.



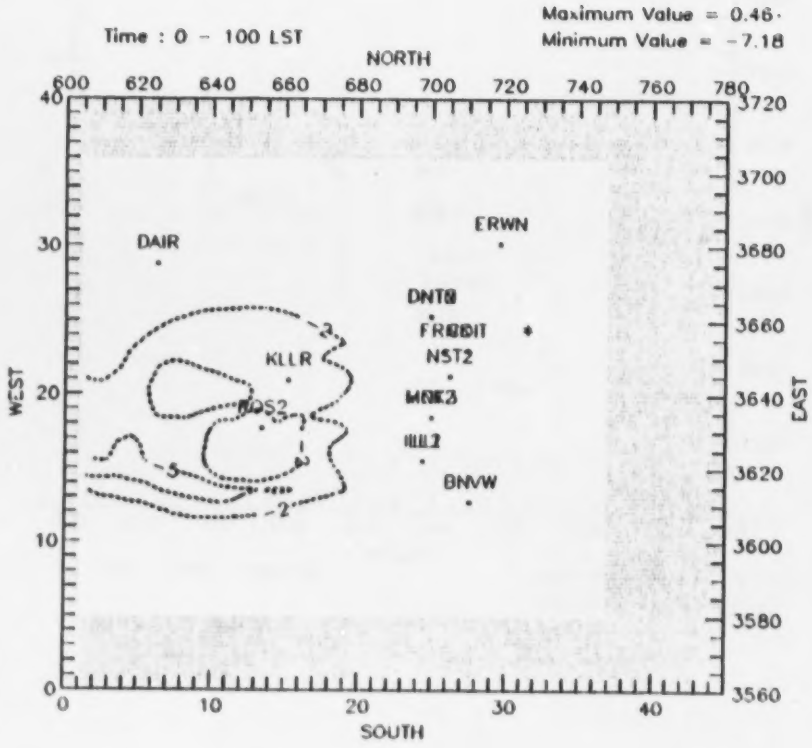
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 30 August, 1985.

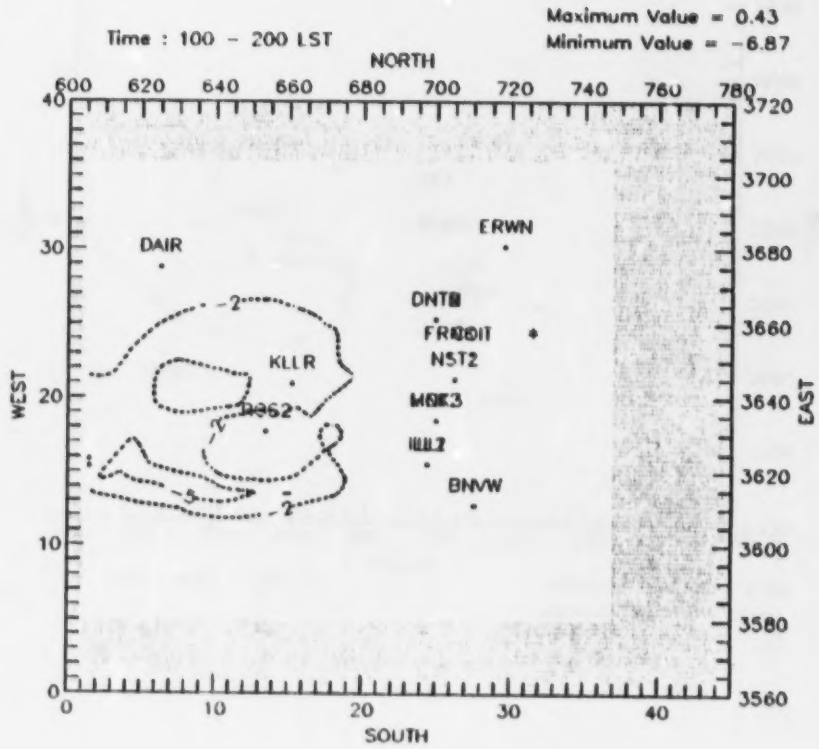


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 30 August, 1985.

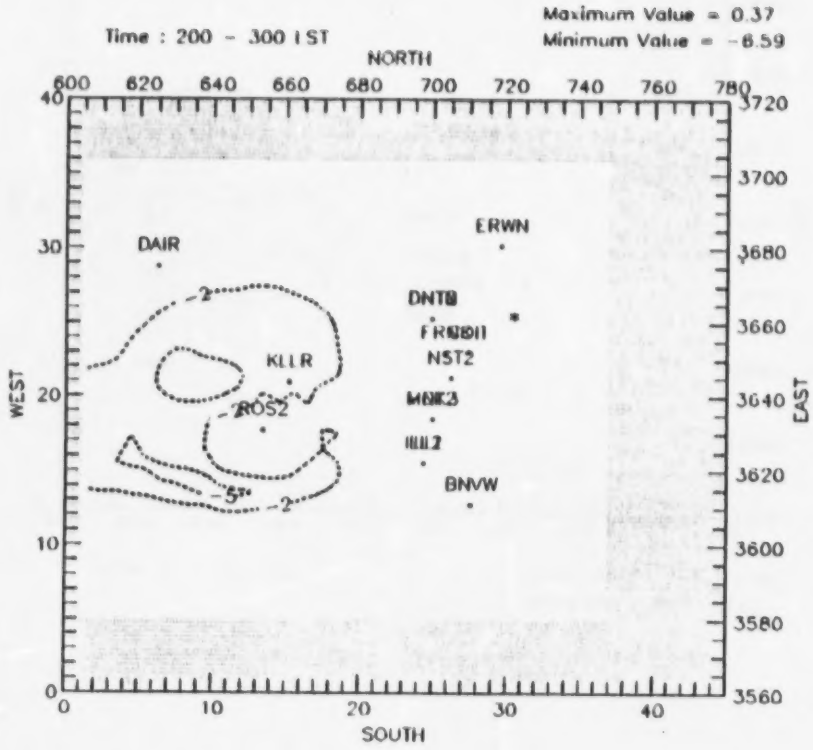


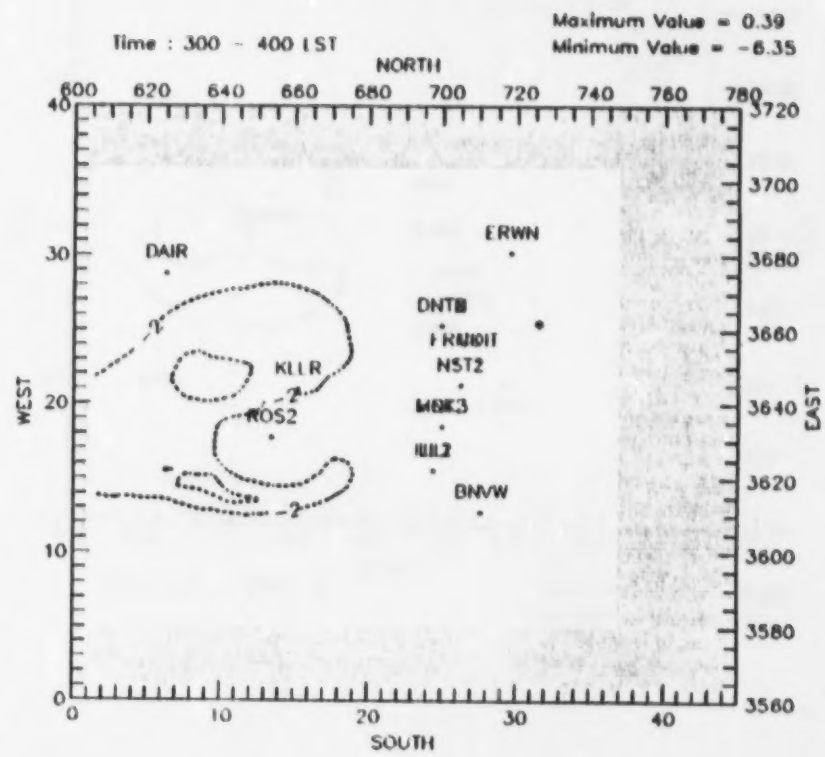
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 30 August, 1985.



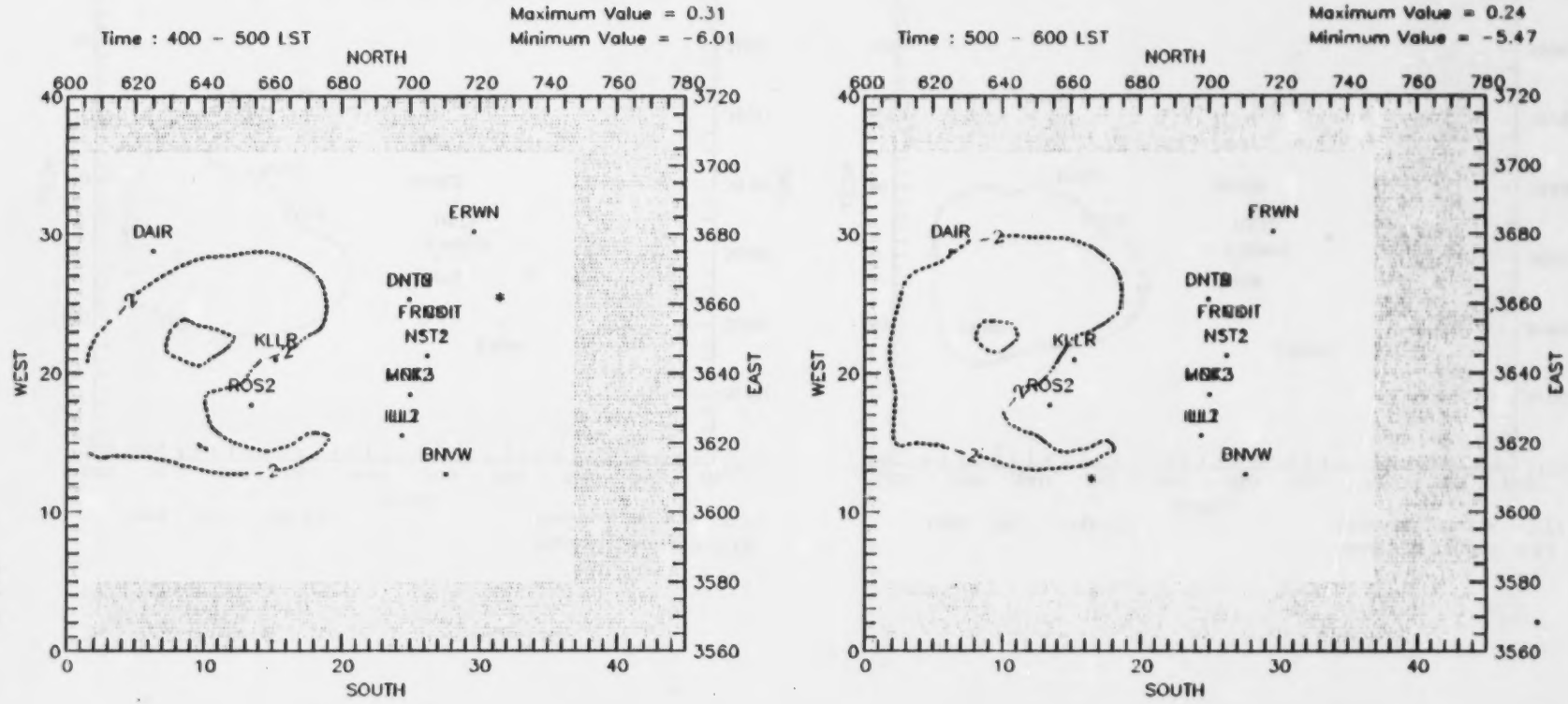


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.

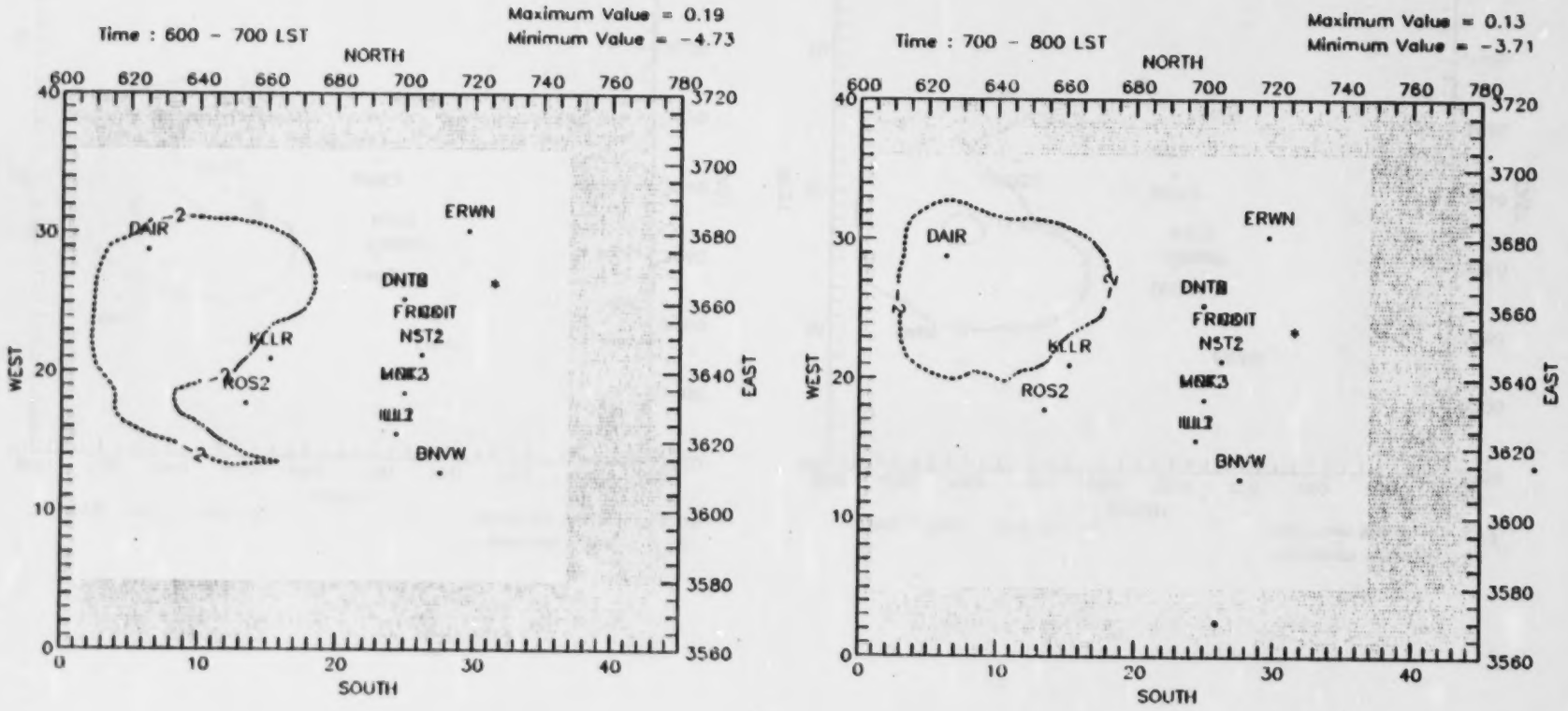




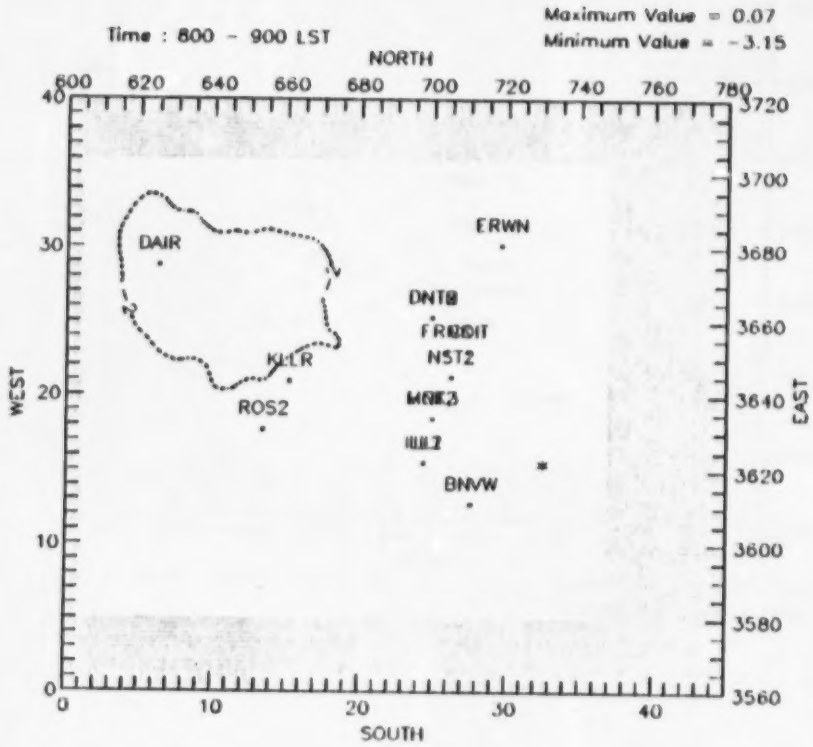
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.

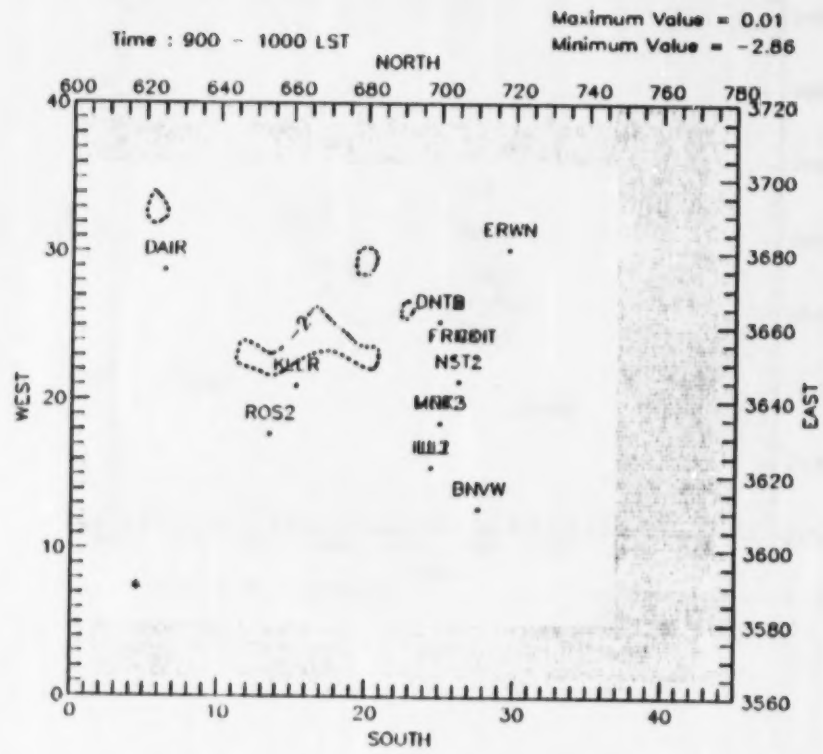


Differences in hourly ozone concentrations (ppb) for Dallas–Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.

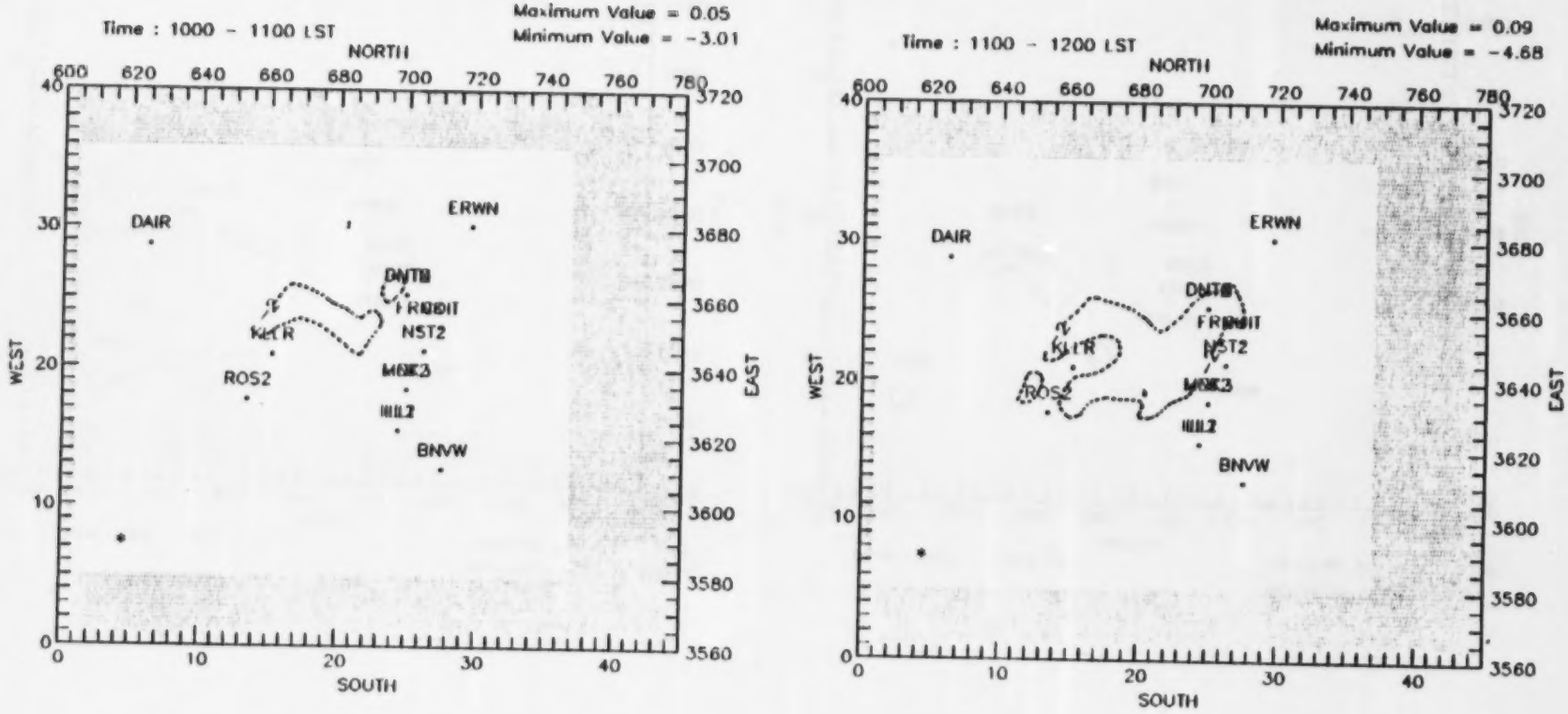


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.

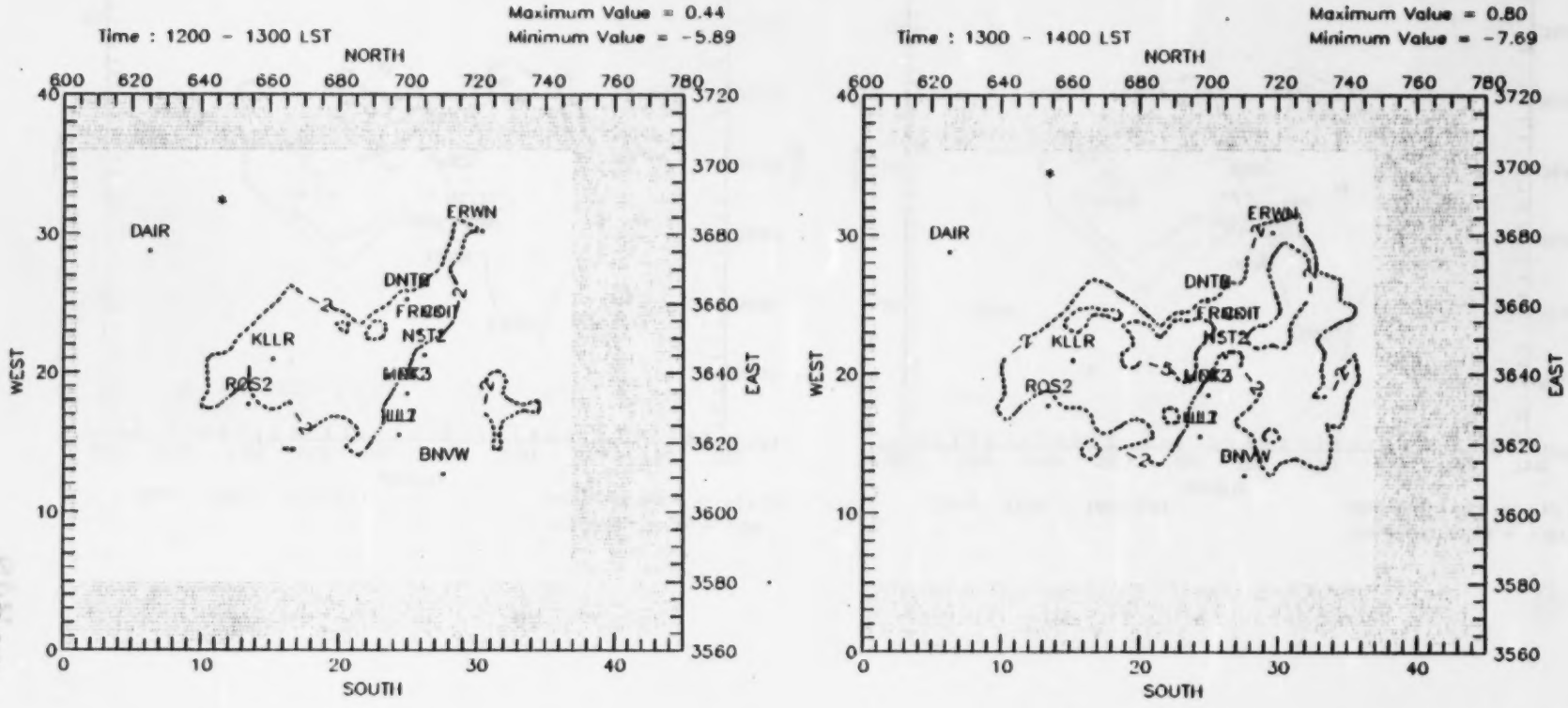




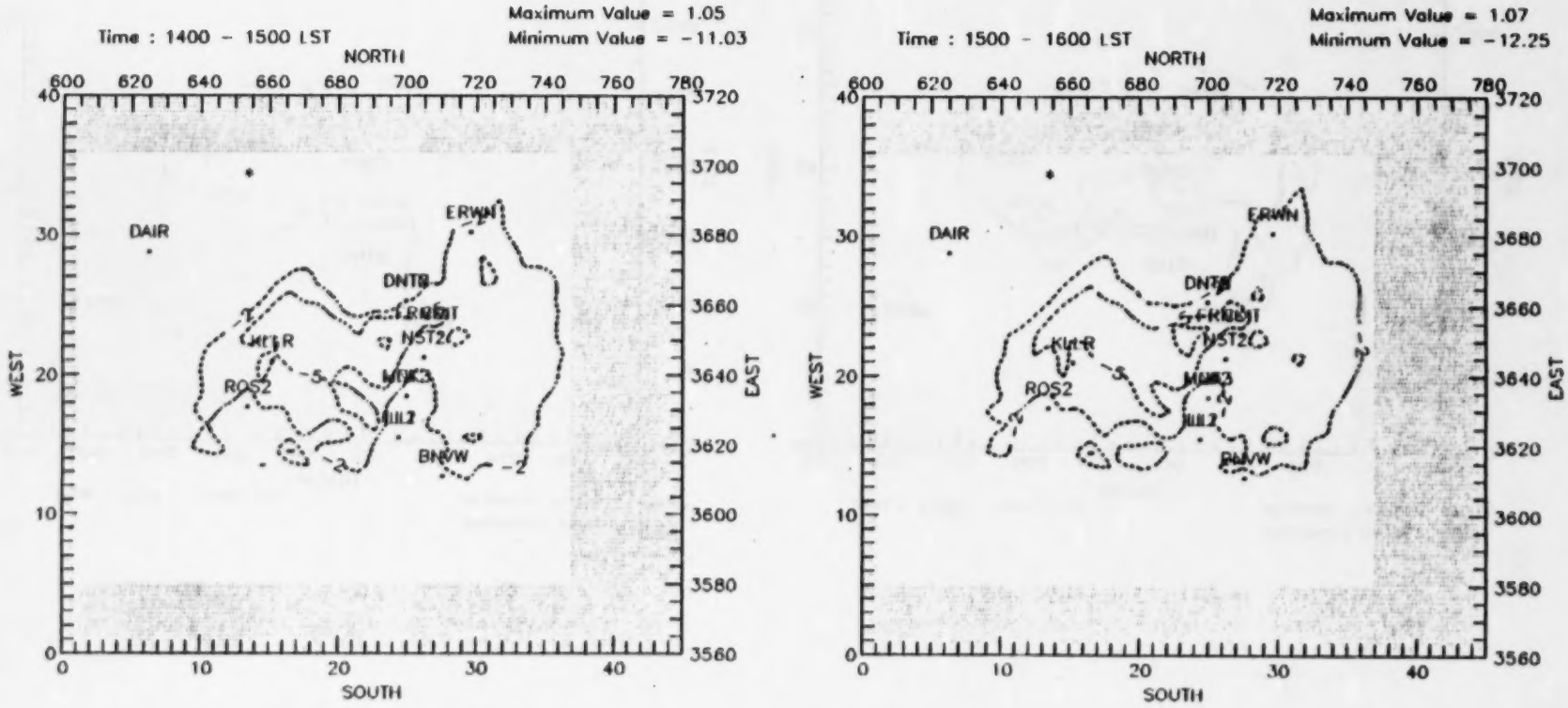
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.



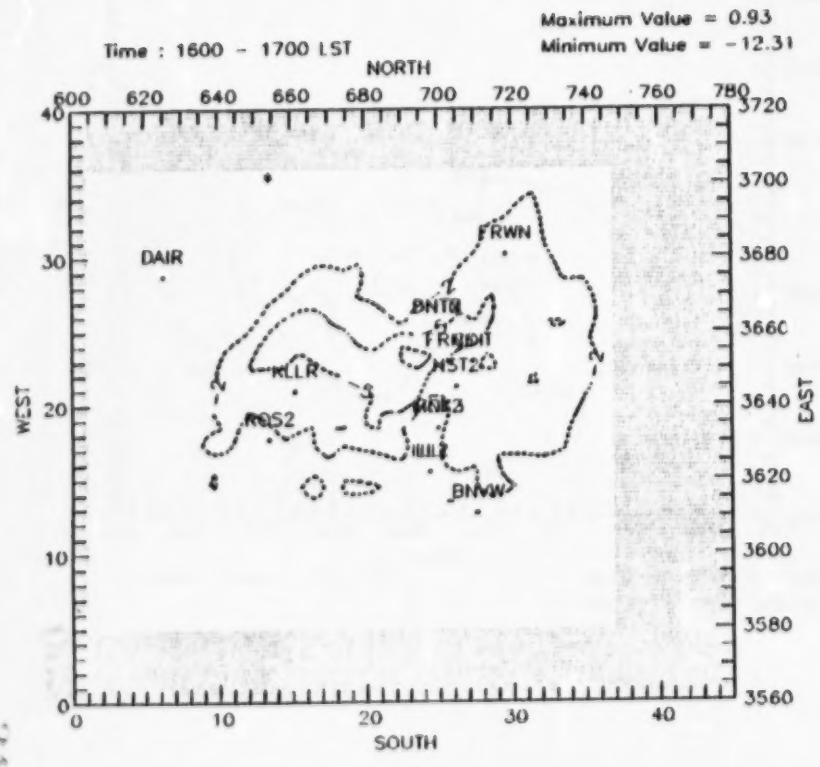
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.

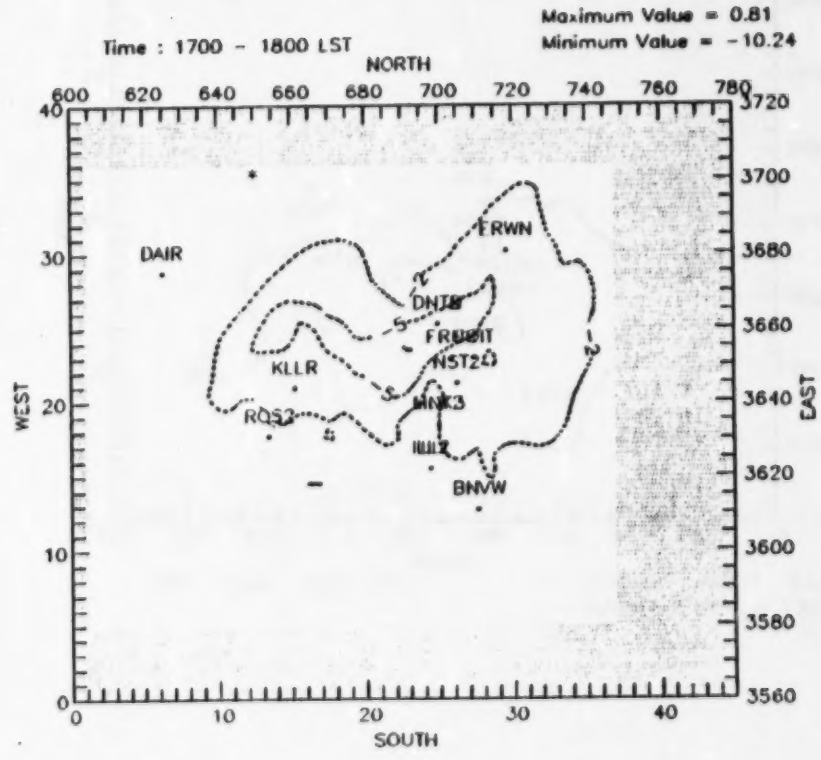


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.

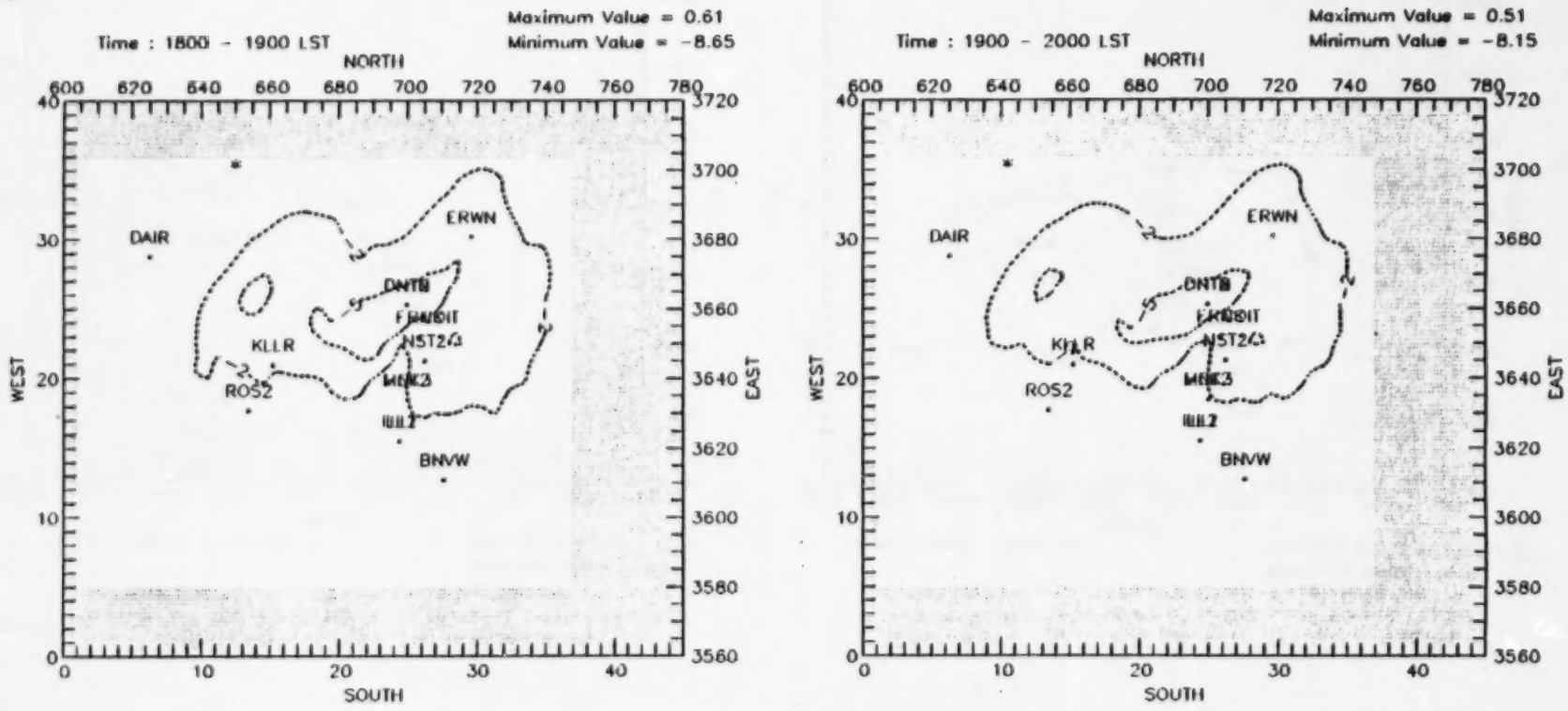


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.

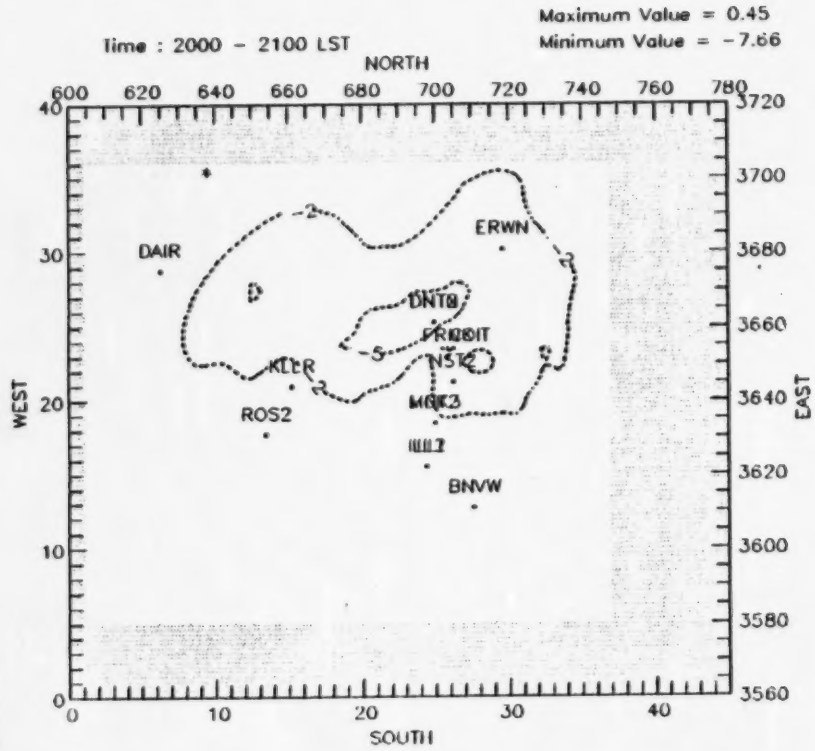




Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.



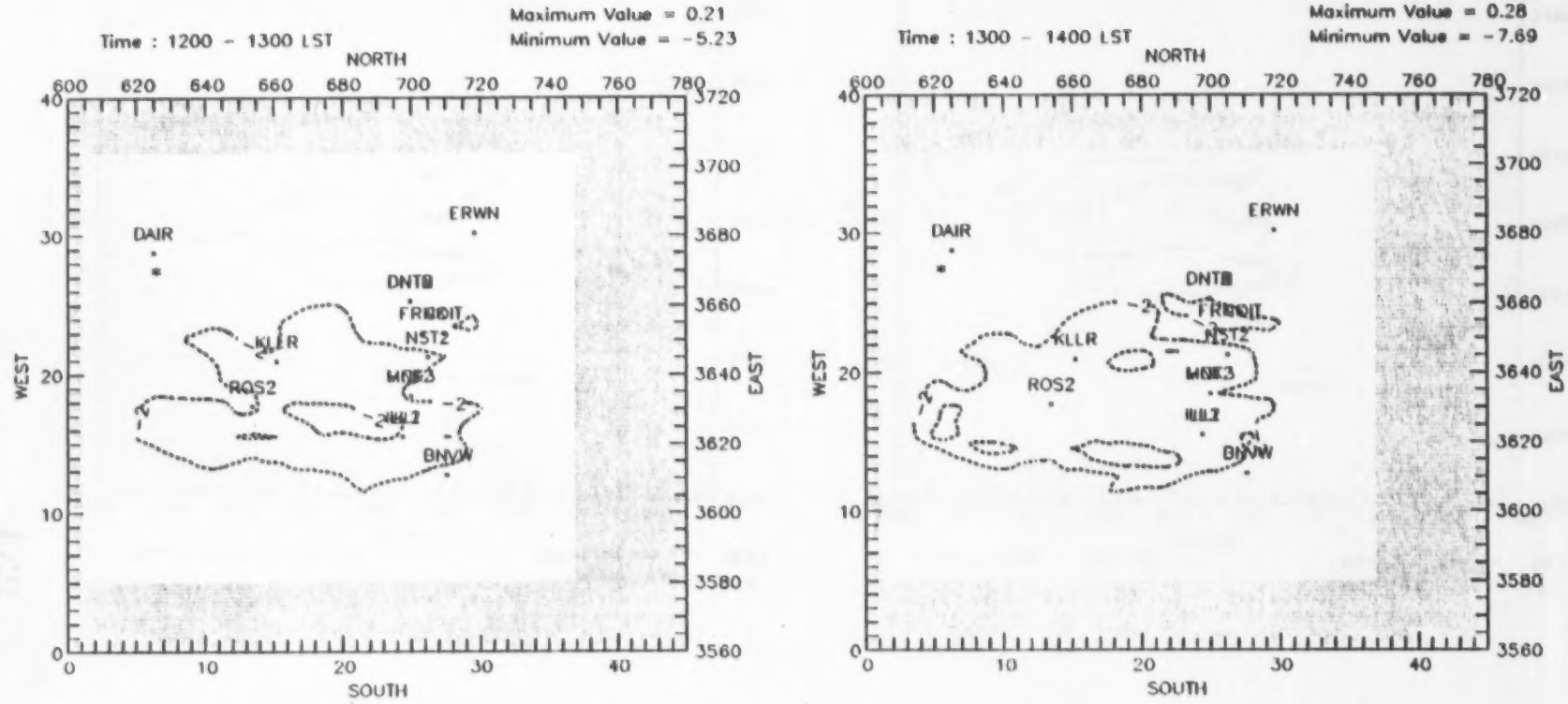
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.



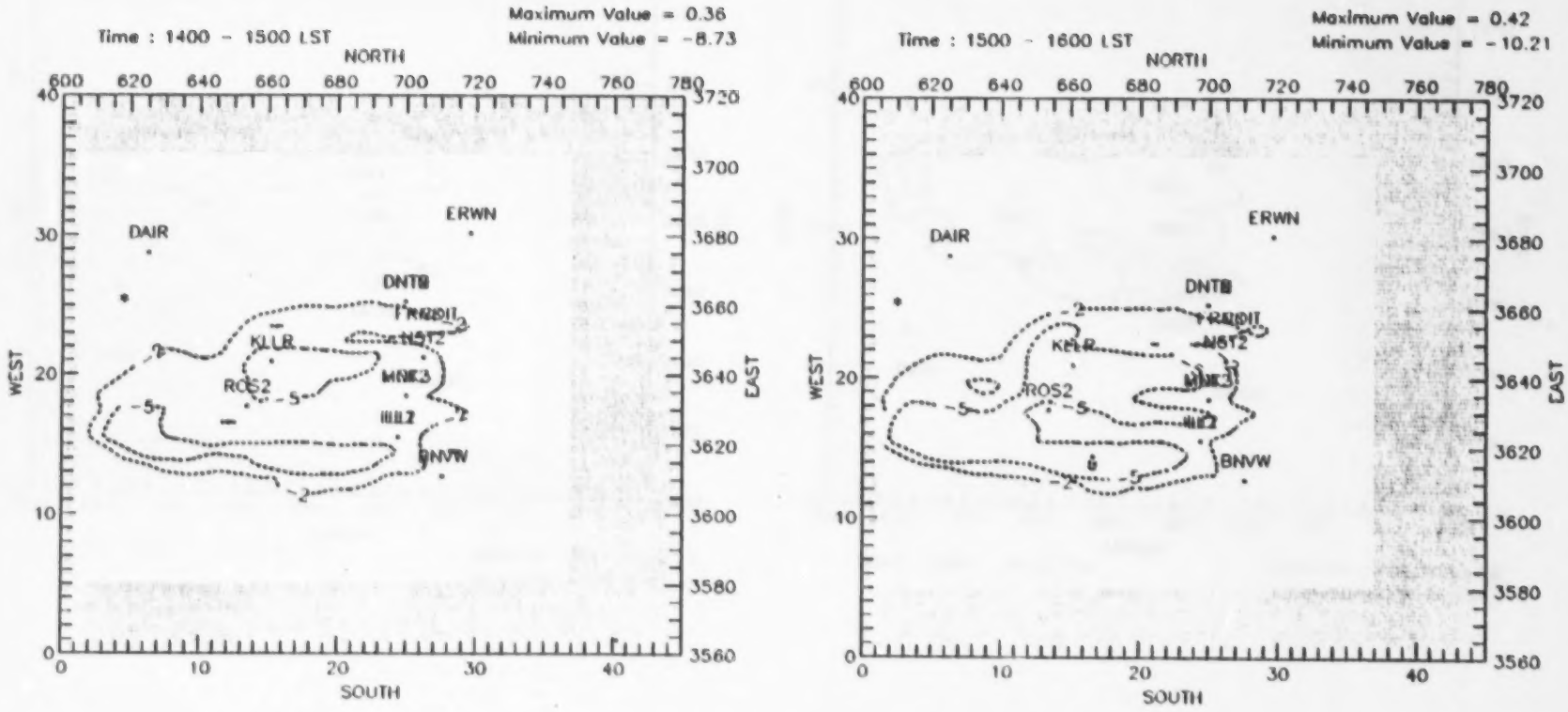
Differences in hourly ozone concentrations (ppb) for Dallas–Fort Worth between 1995 new reg gas and 1995 base case on 31 August, 1985.

Appendix U

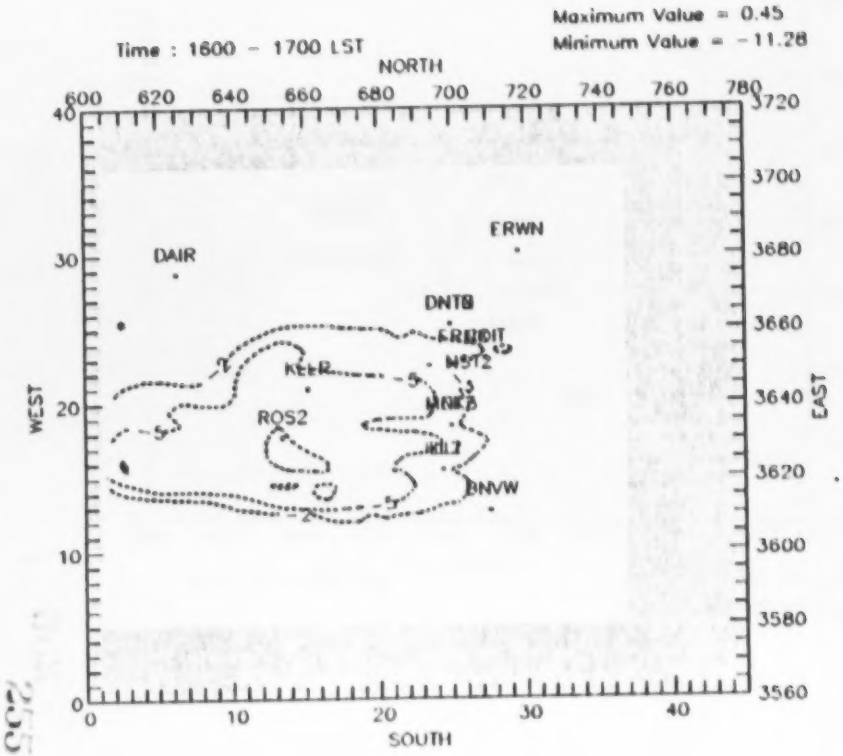
DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb)
BETWEEN DALLAS-FORT WORTH 1995 100 PERCENT METHANOL (M100)
VEHICLE AND NEW REGULATION GAS VEHICLE EMISSION SCENARIOS
(M100 MINUS NEW REGULATION GAS)



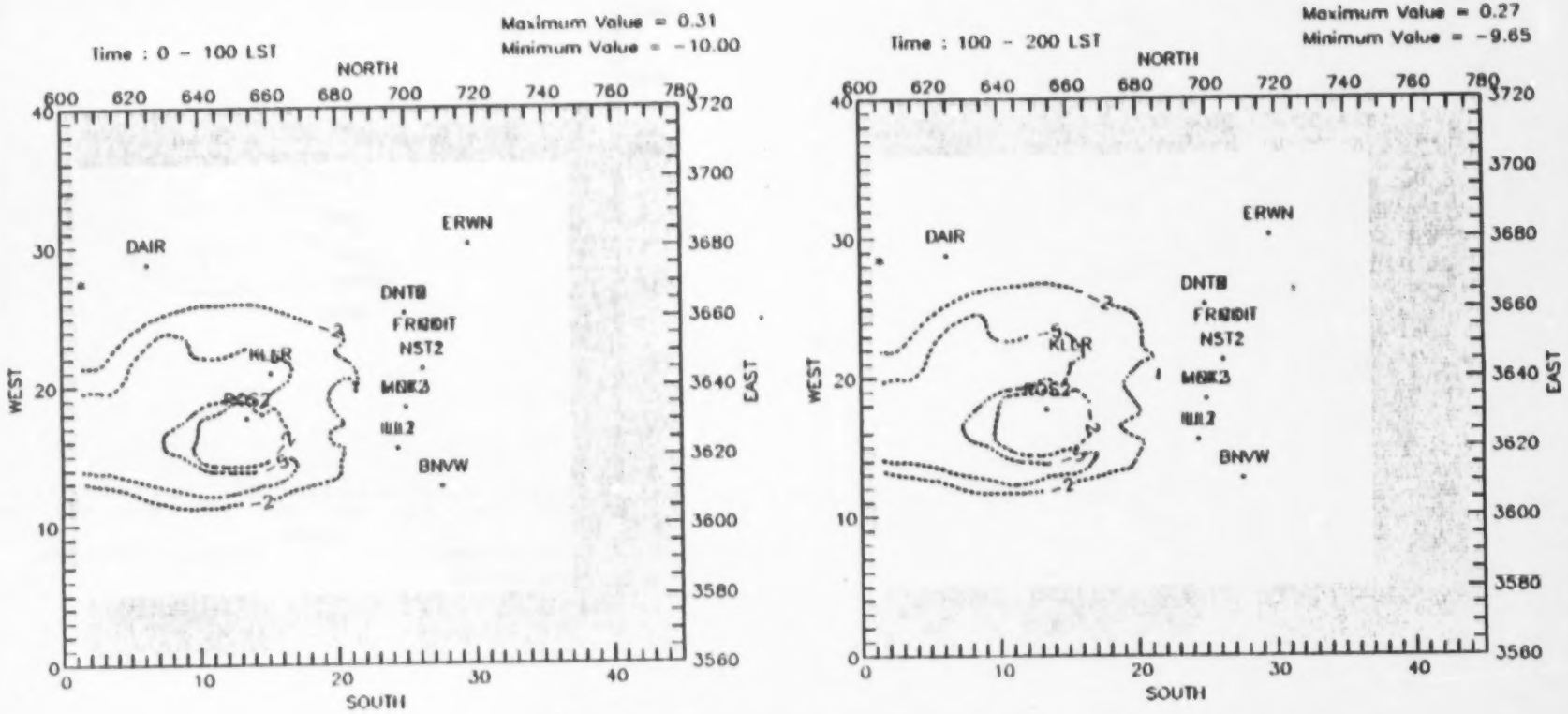
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 30 August, 1985.



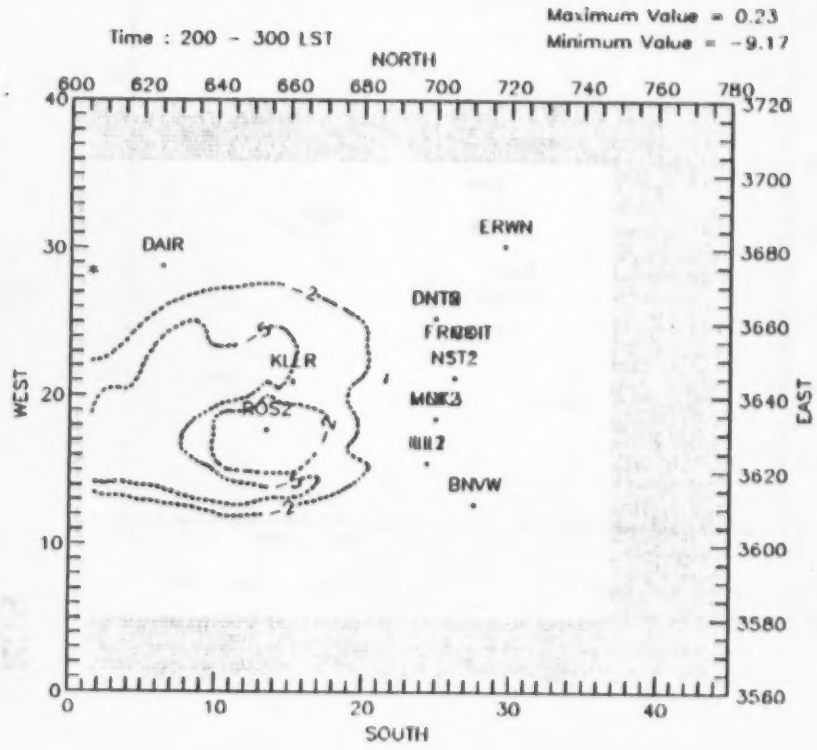
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 30 August, 1985.

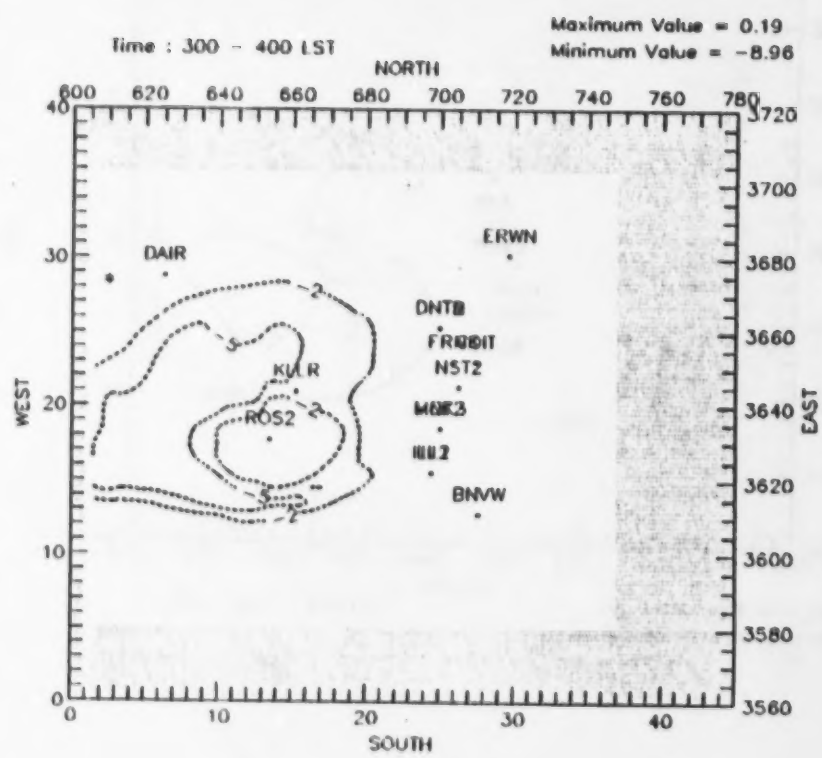


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 30 August, 1985.

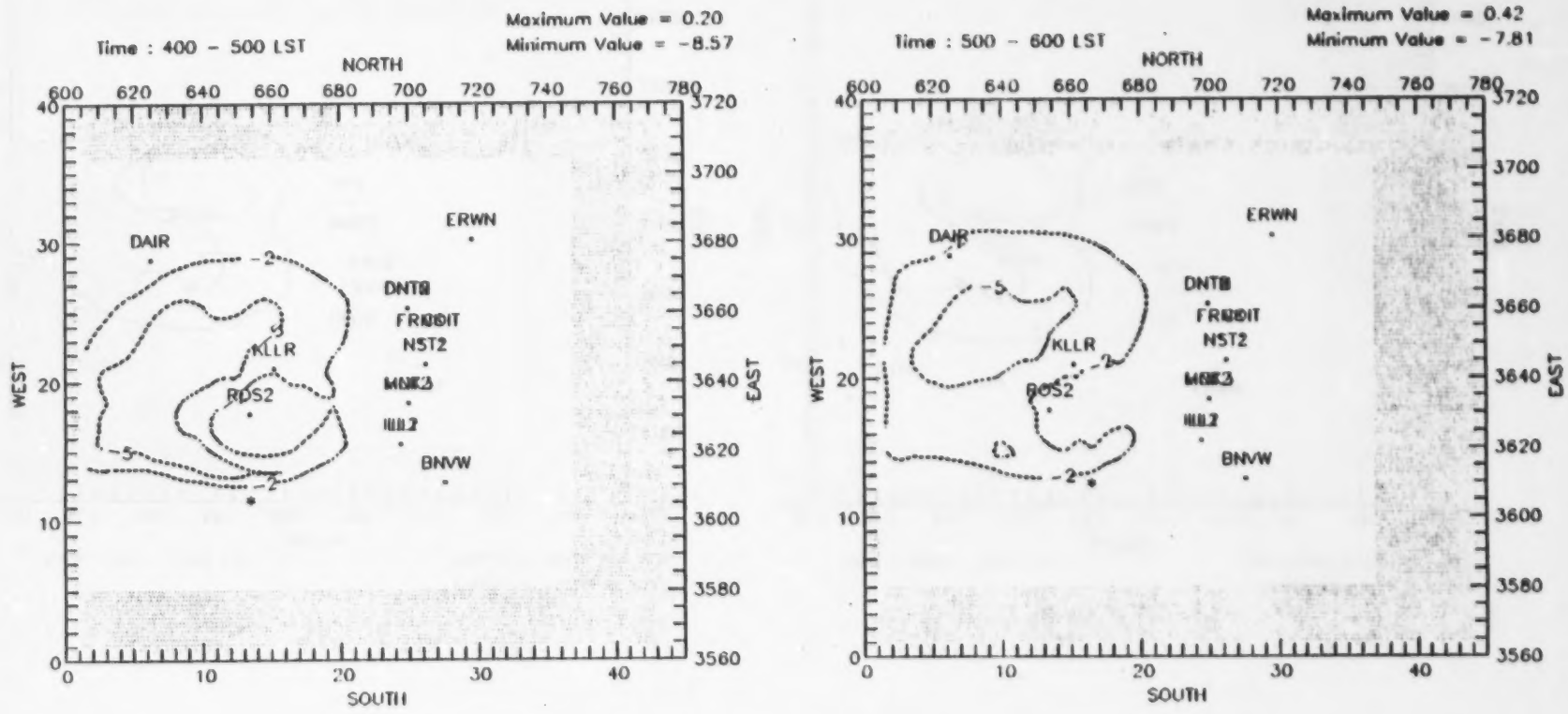


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

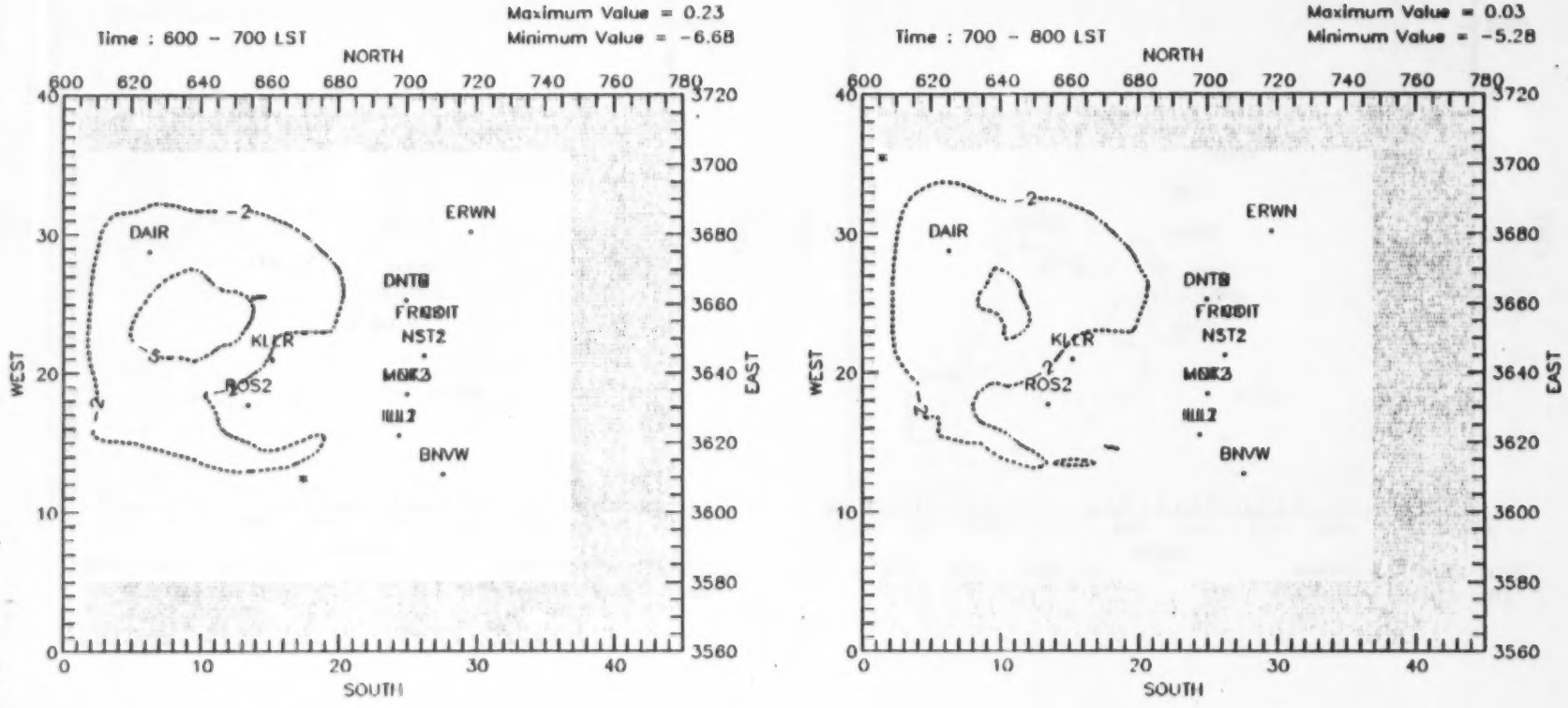




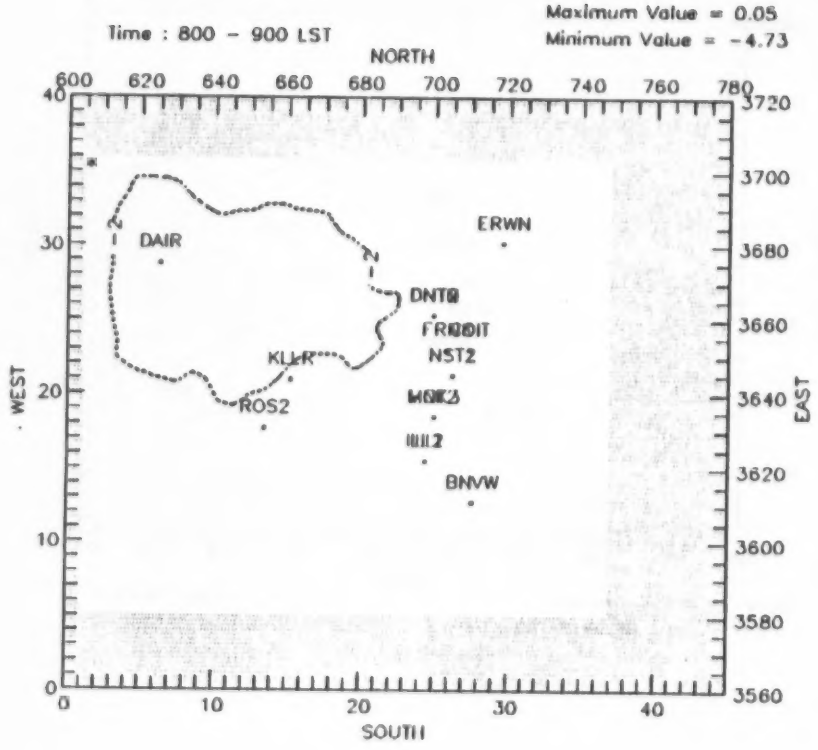
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

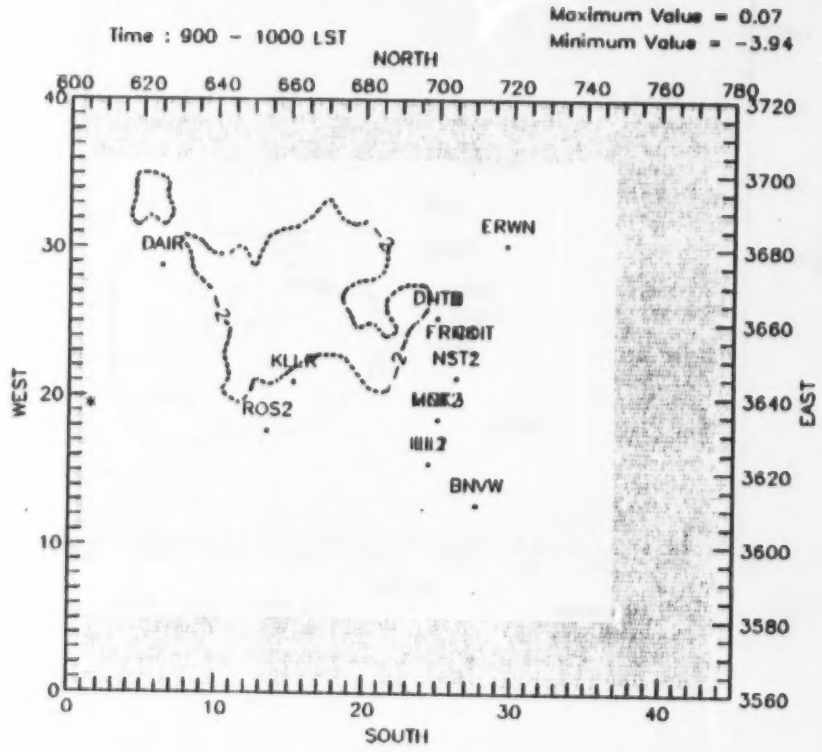


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

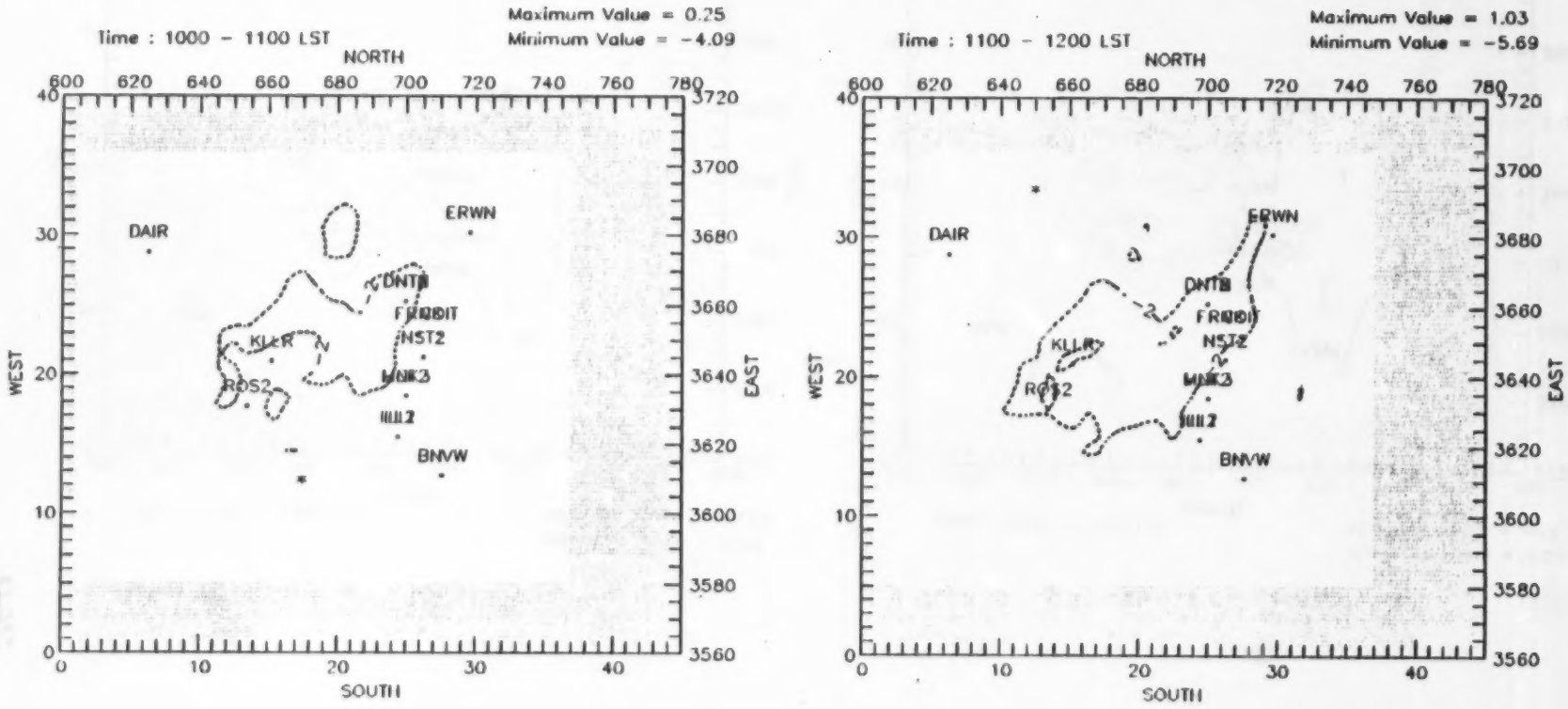


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

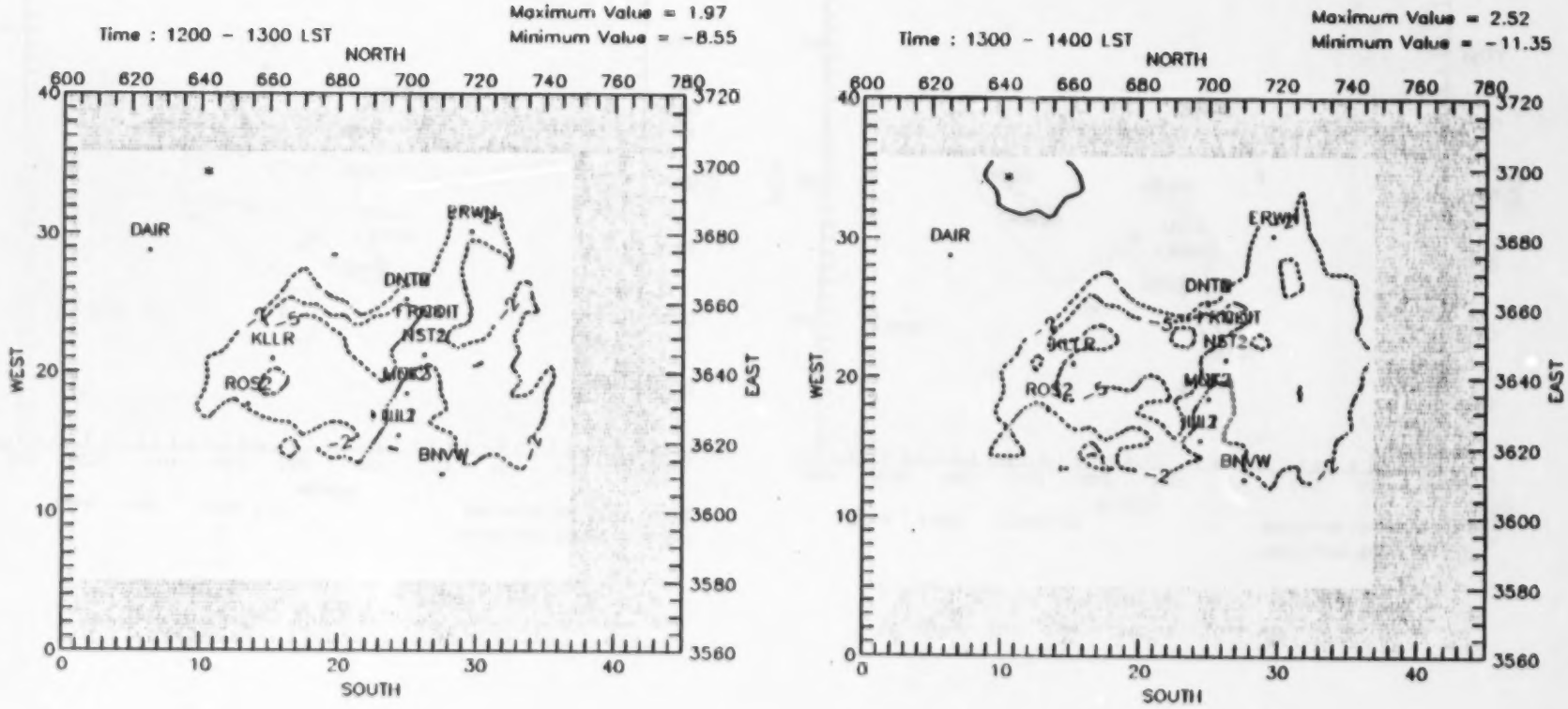




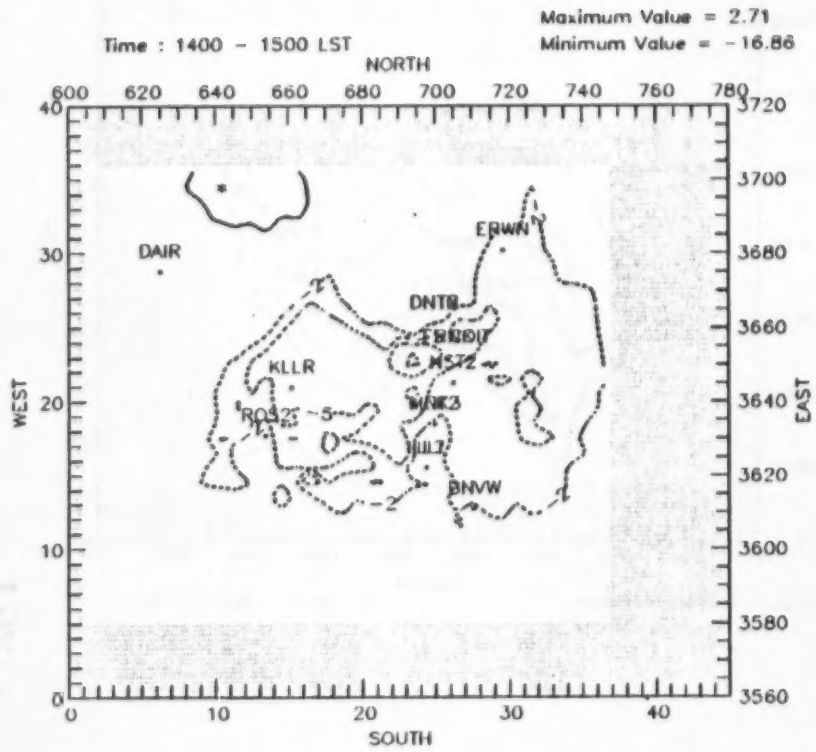
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

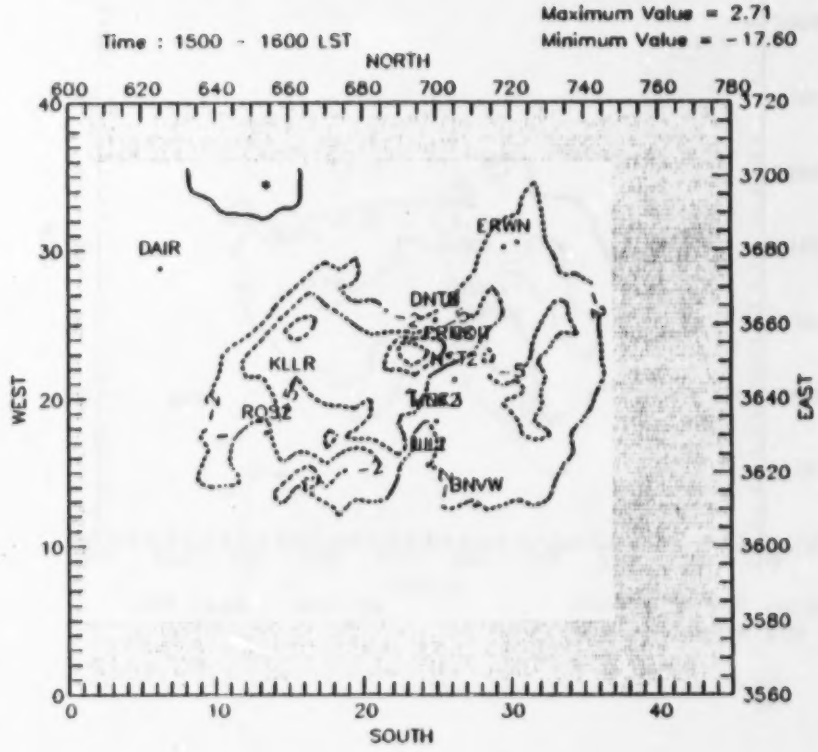


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

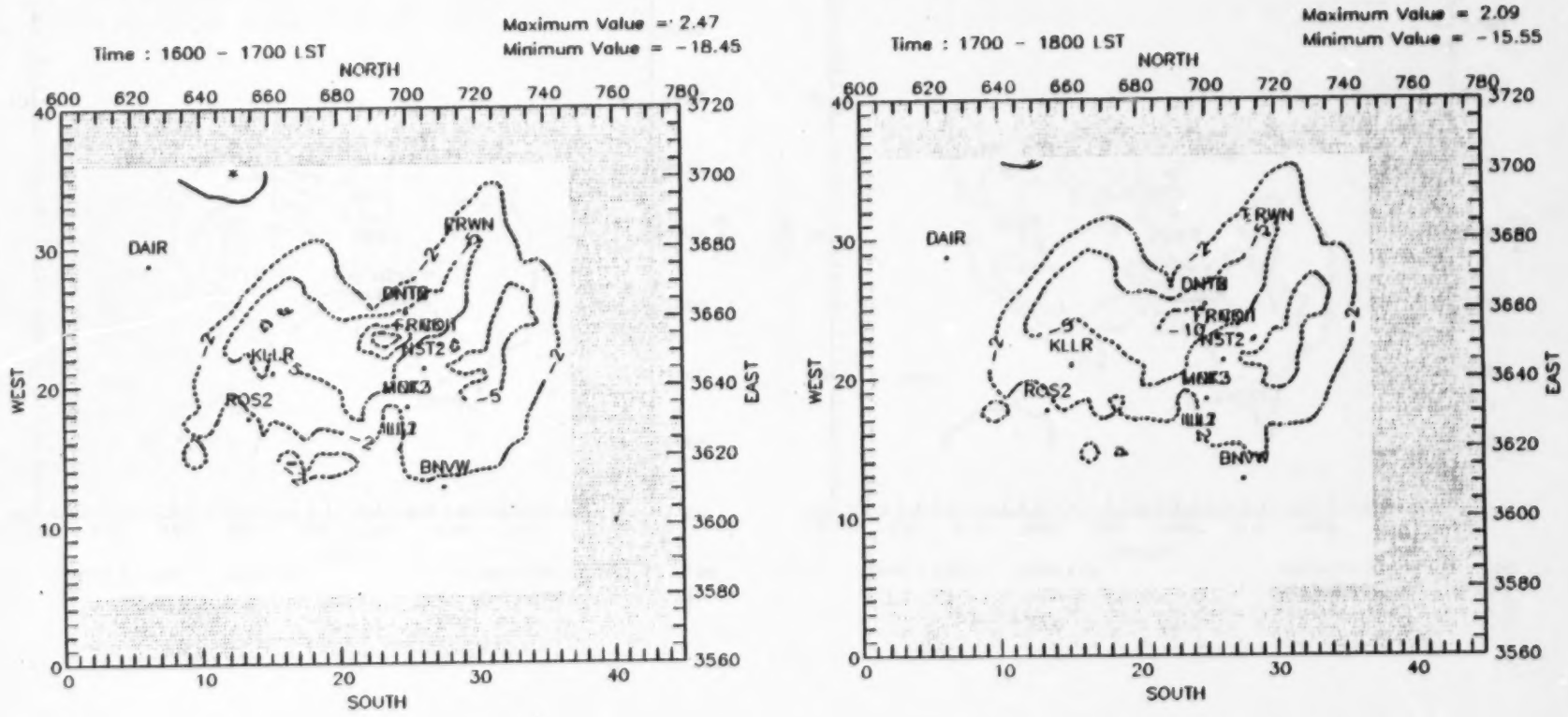


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

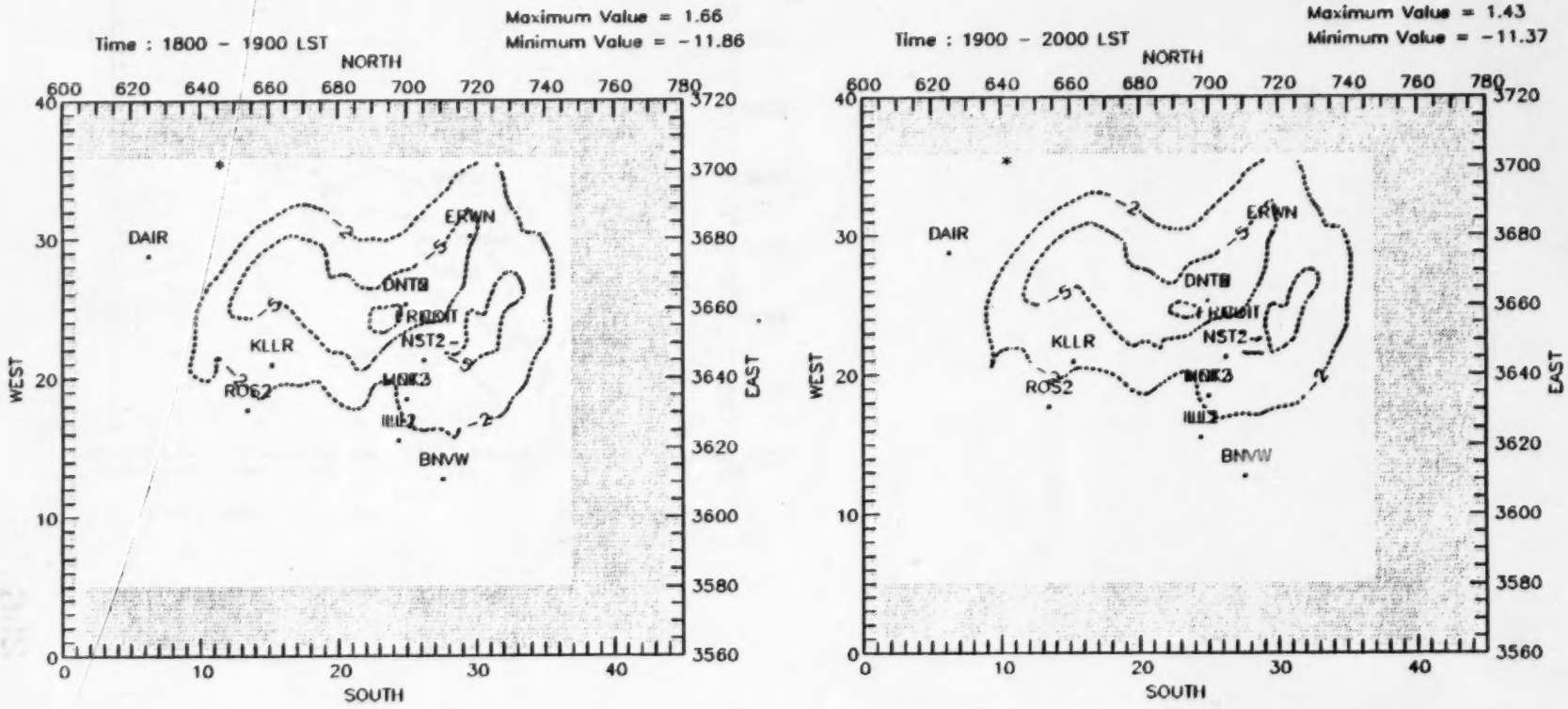




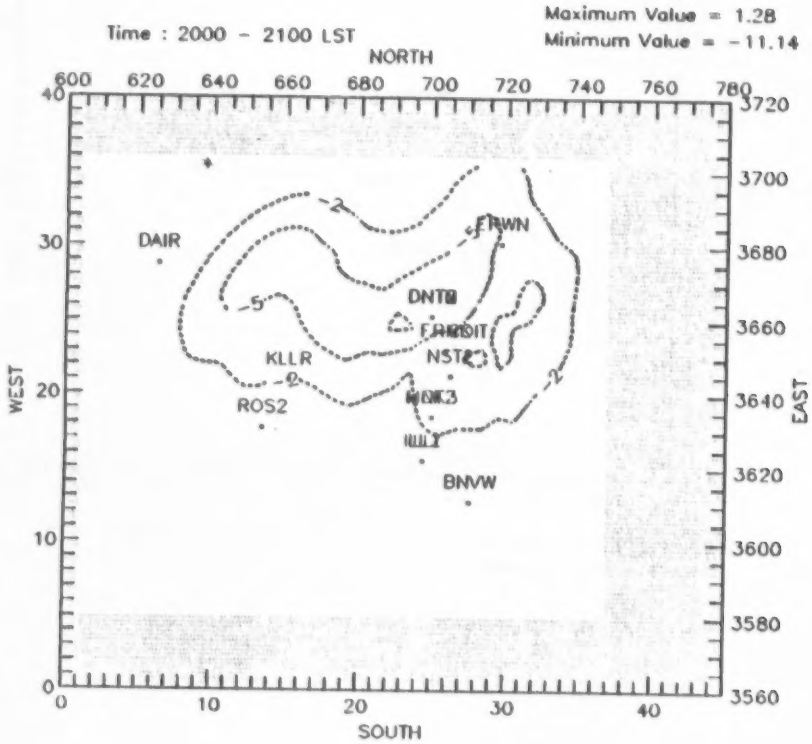
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.



Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.



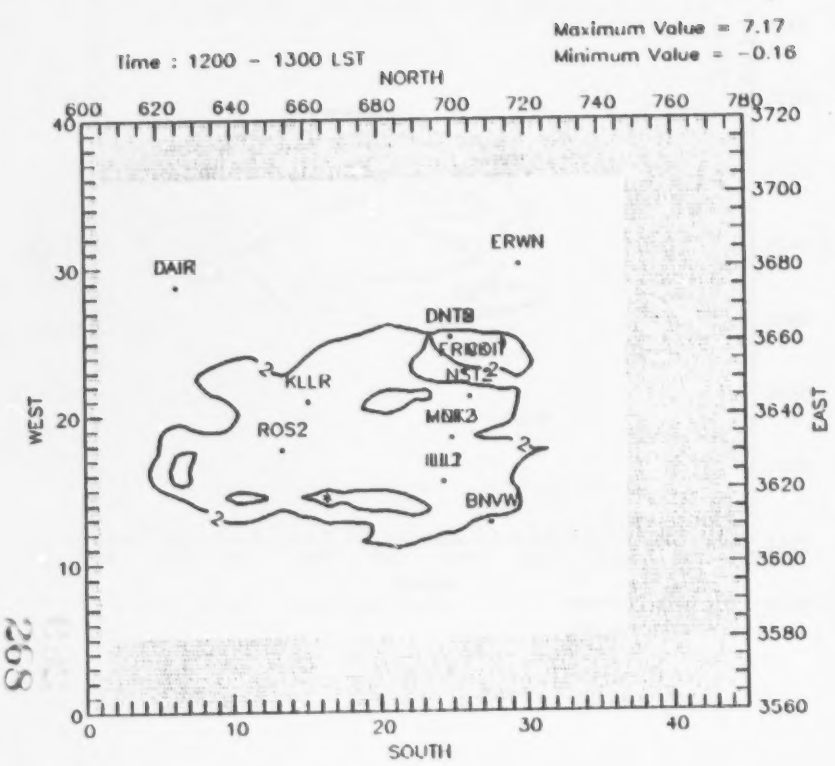
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

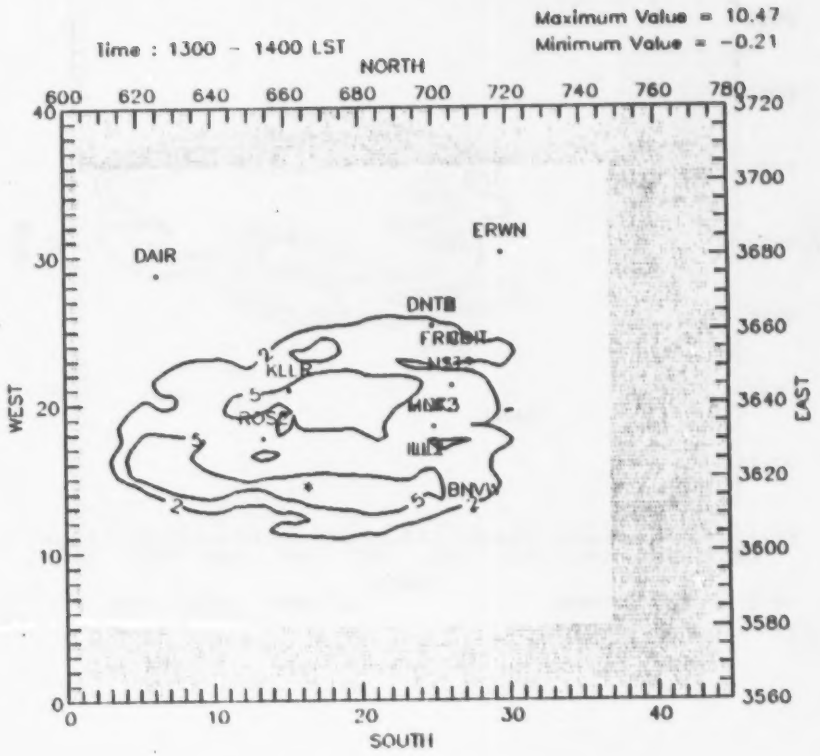


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 m100 and 1995 new reg gas on 31 August, 1985.

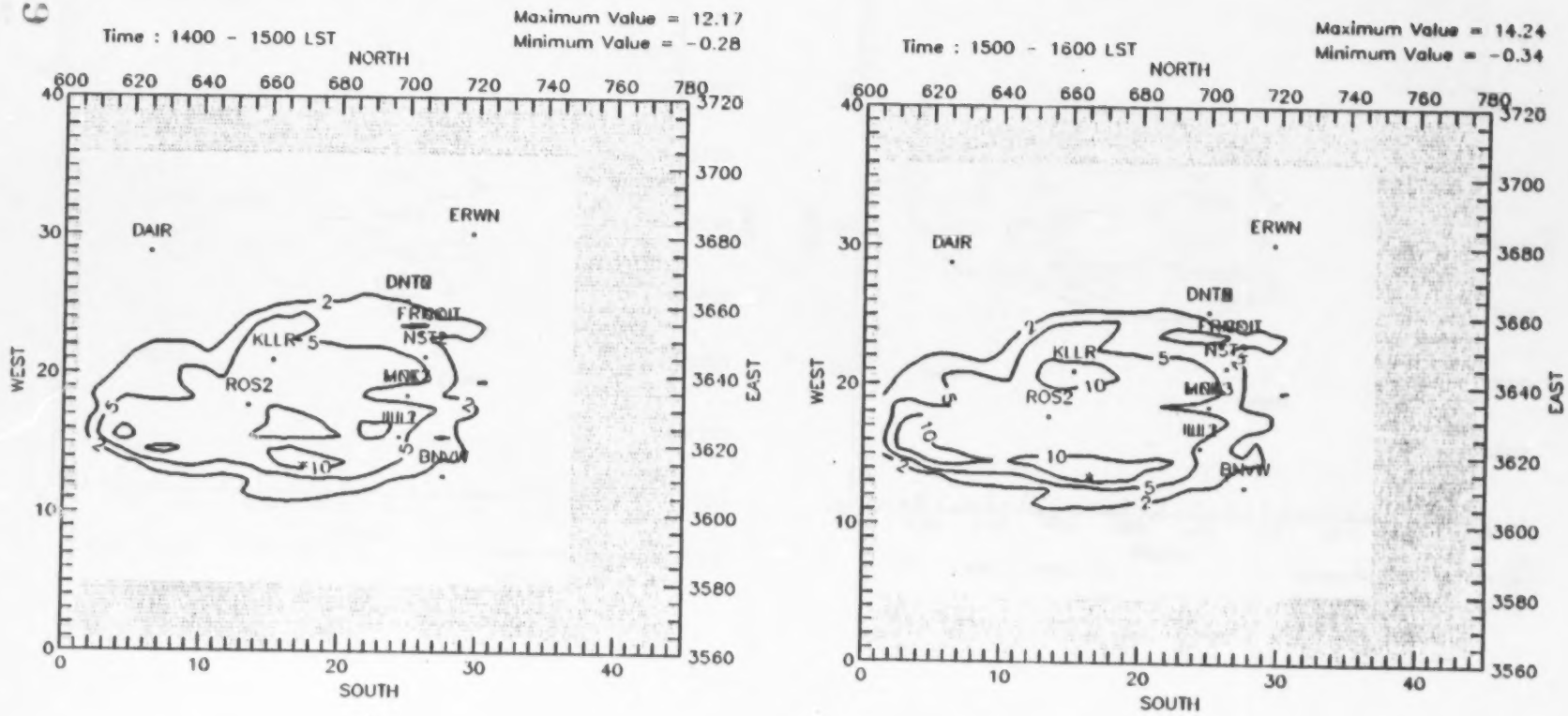
Appendix V

DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) FOR DALLAS-FORT WORTH 1995 NEW REGULATION GAS VEHICLE AND COMPRESSED NATURAL GAS VEHICLE EMISSION SCENARIOS (NEW REGULATION GAS MINUS CNG)

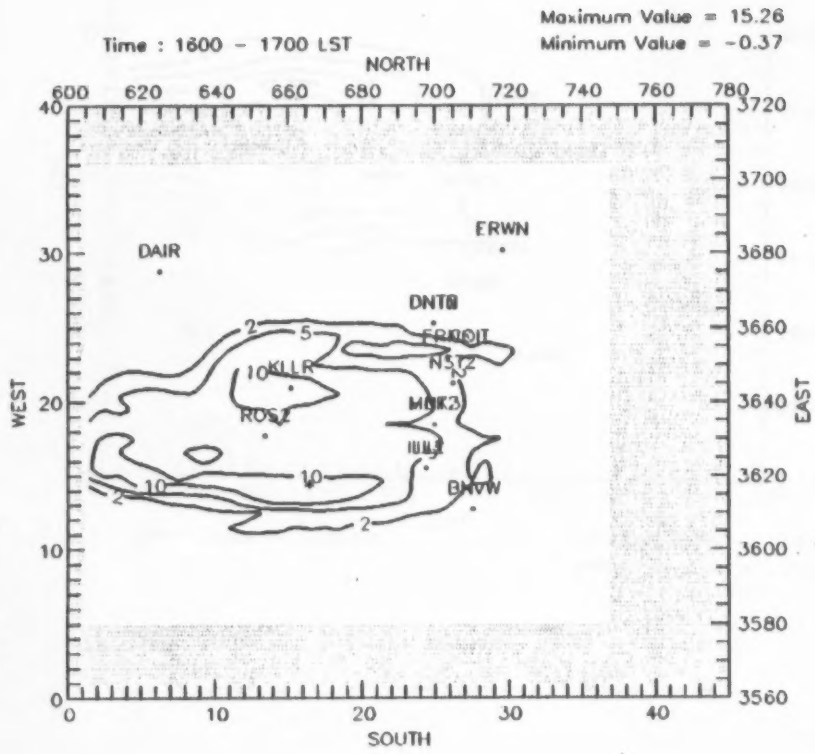


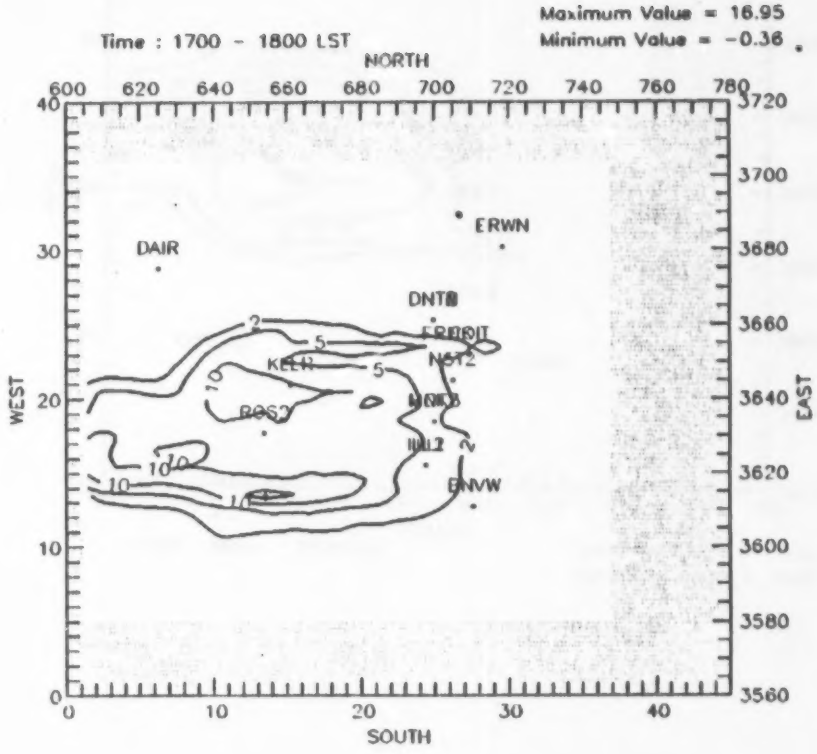


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 30 August, 1985.

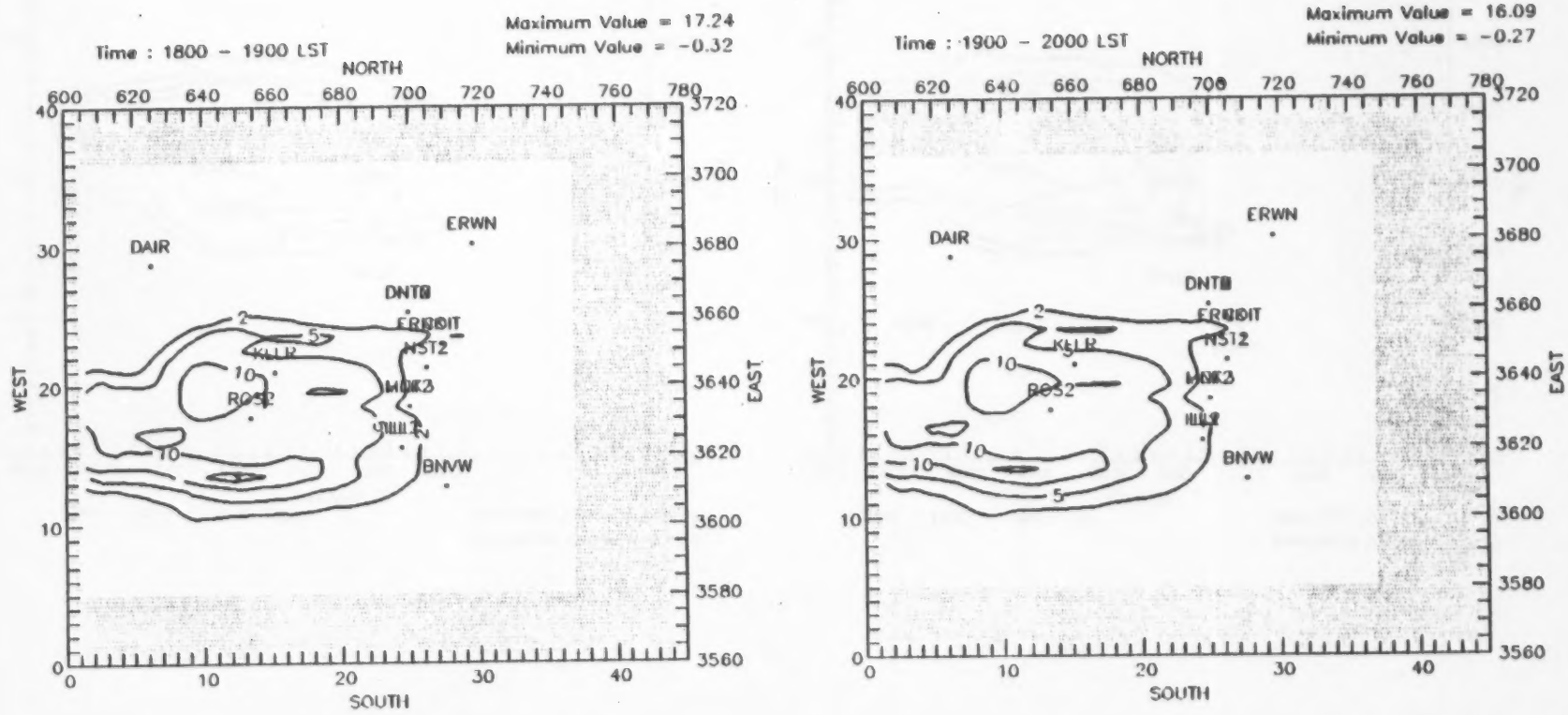


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 30 August, 1985.

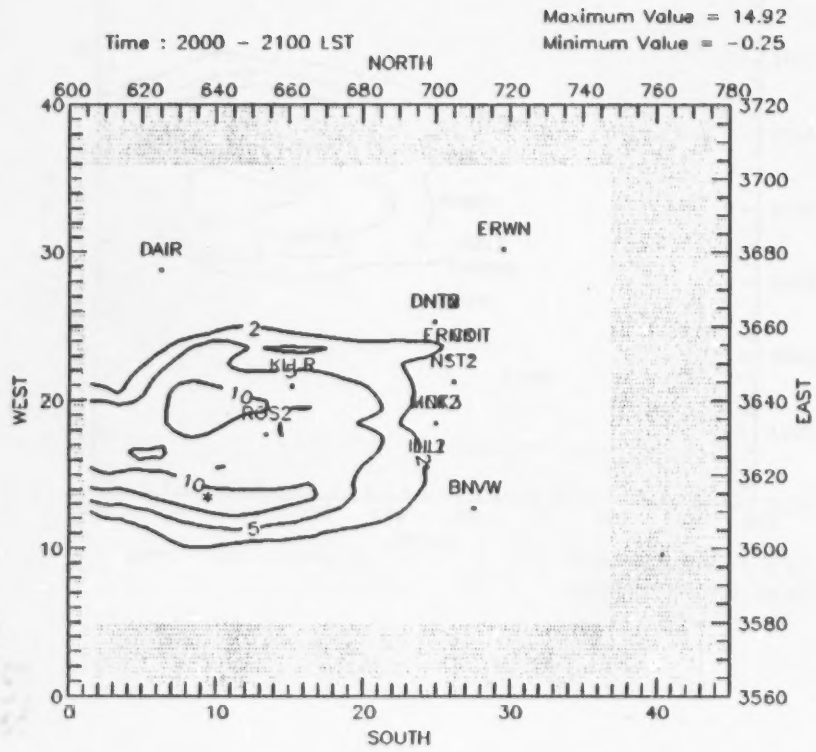


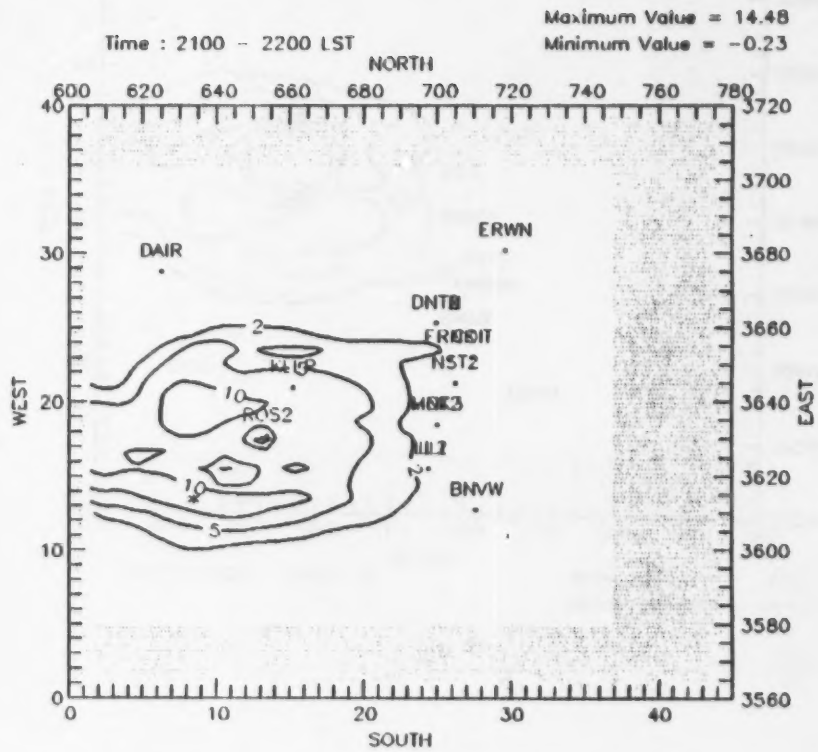


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 30 August, 1985.

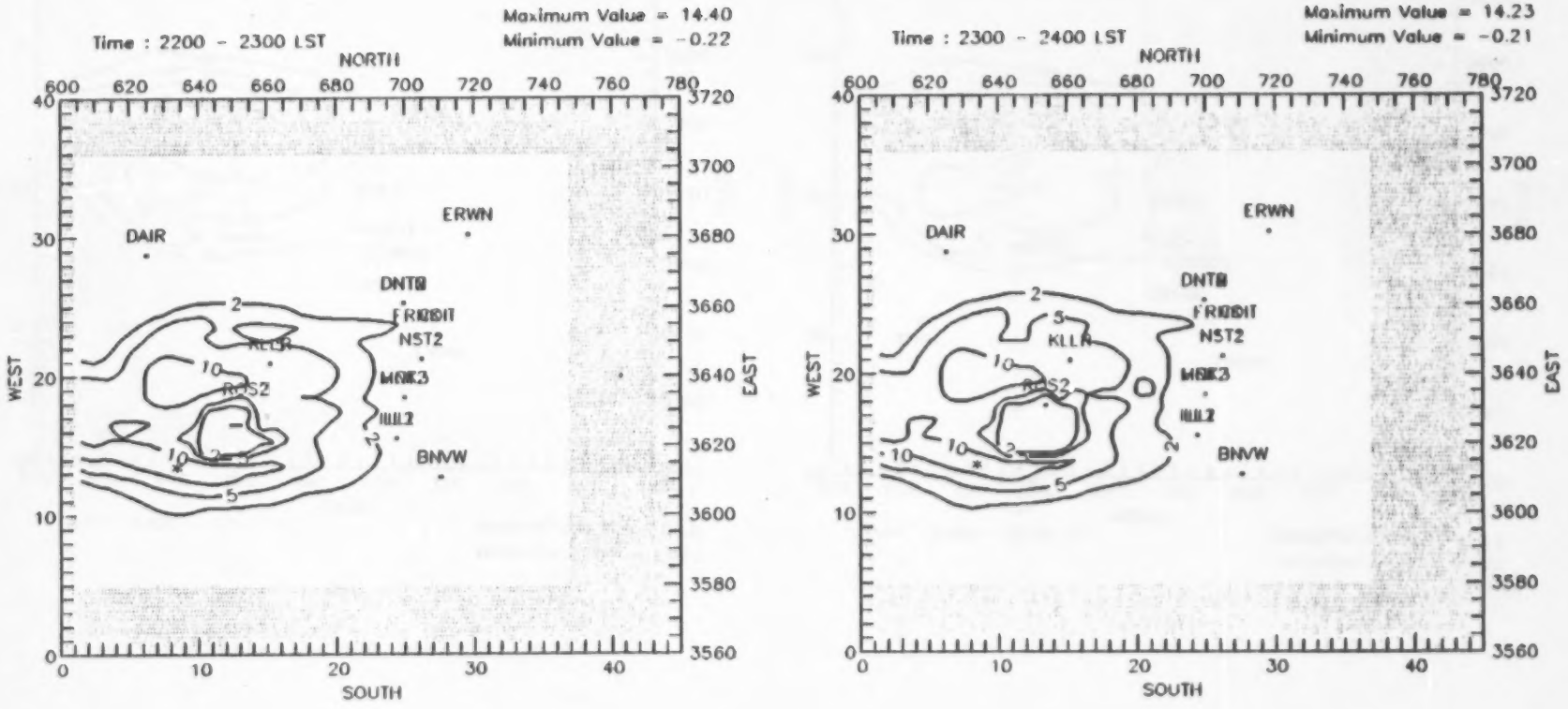


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 30 August, 1985.

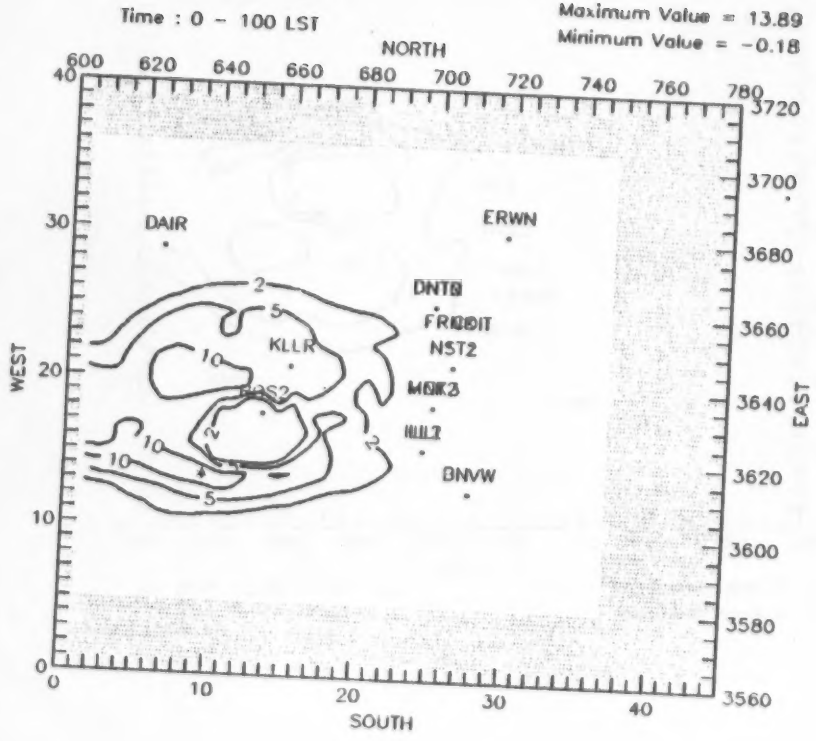


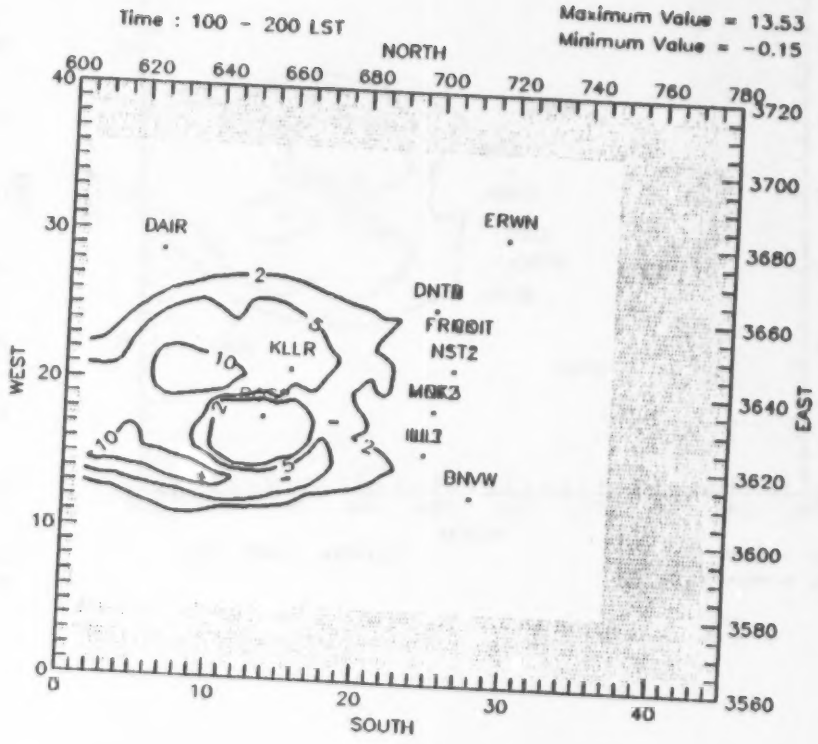


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 30 August, 1985.

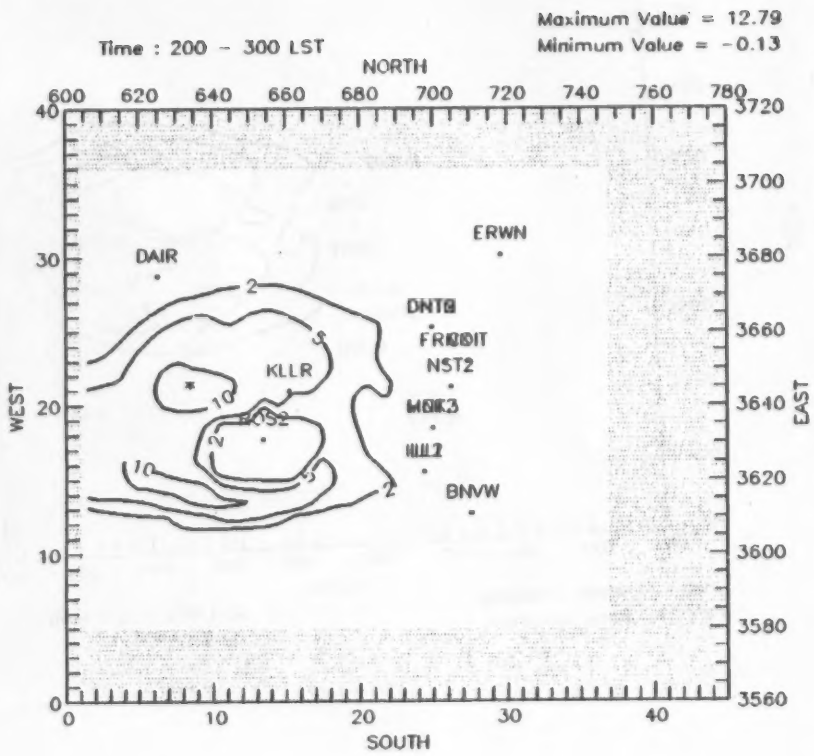


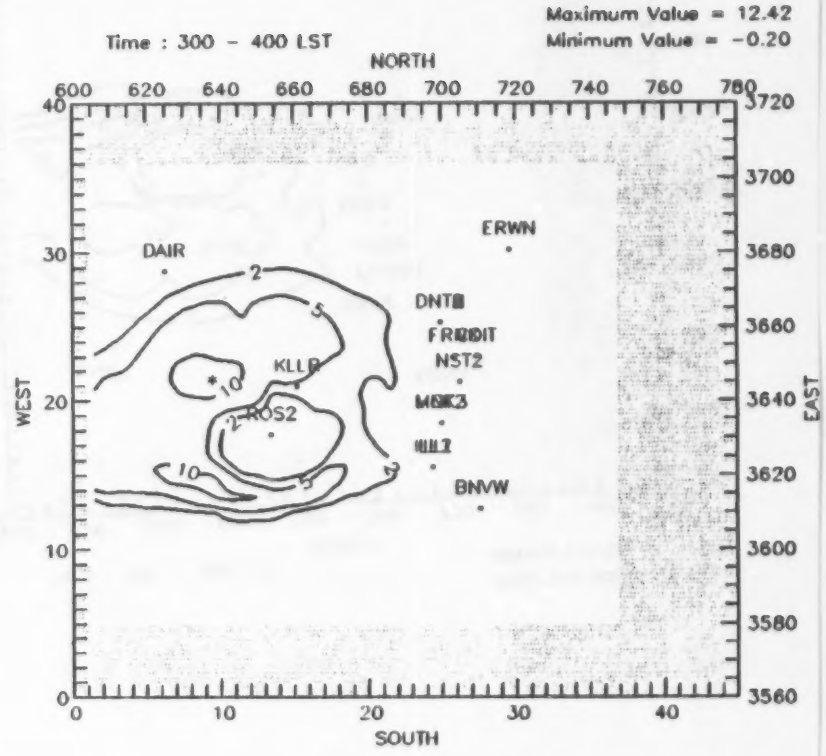
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 30 August, 1985.



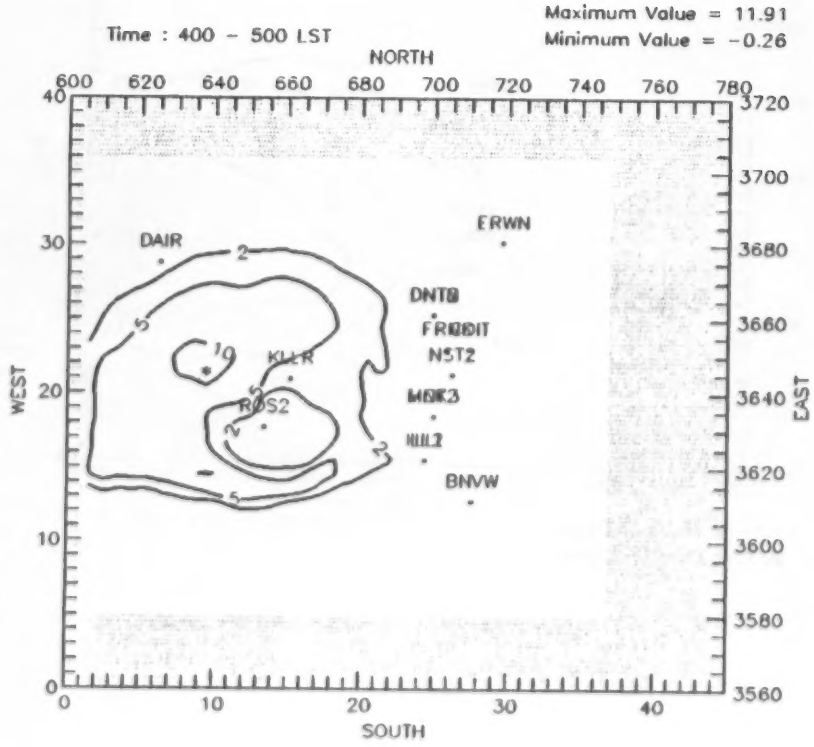


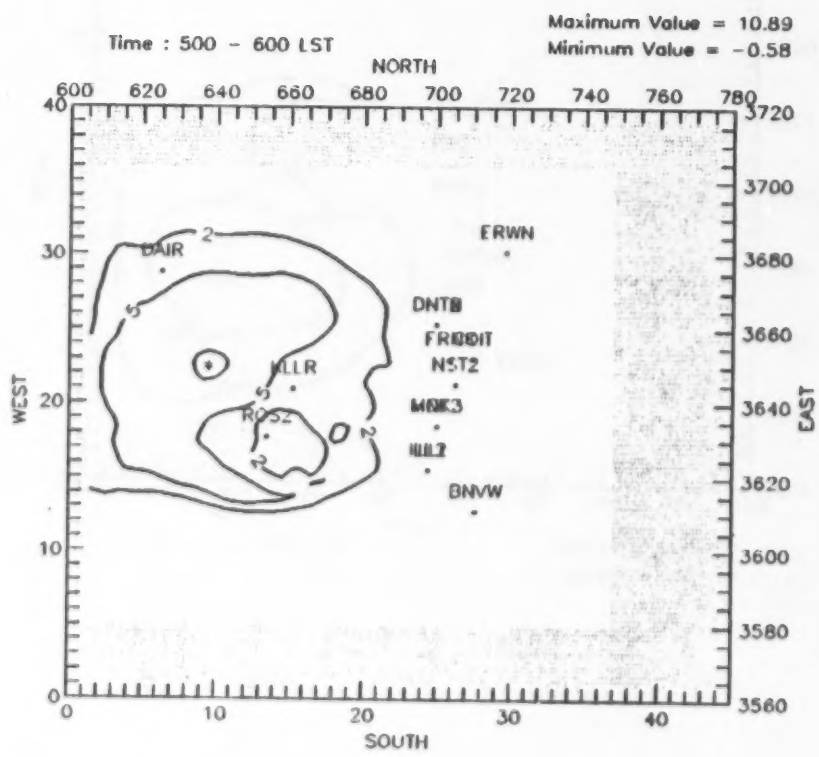
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.



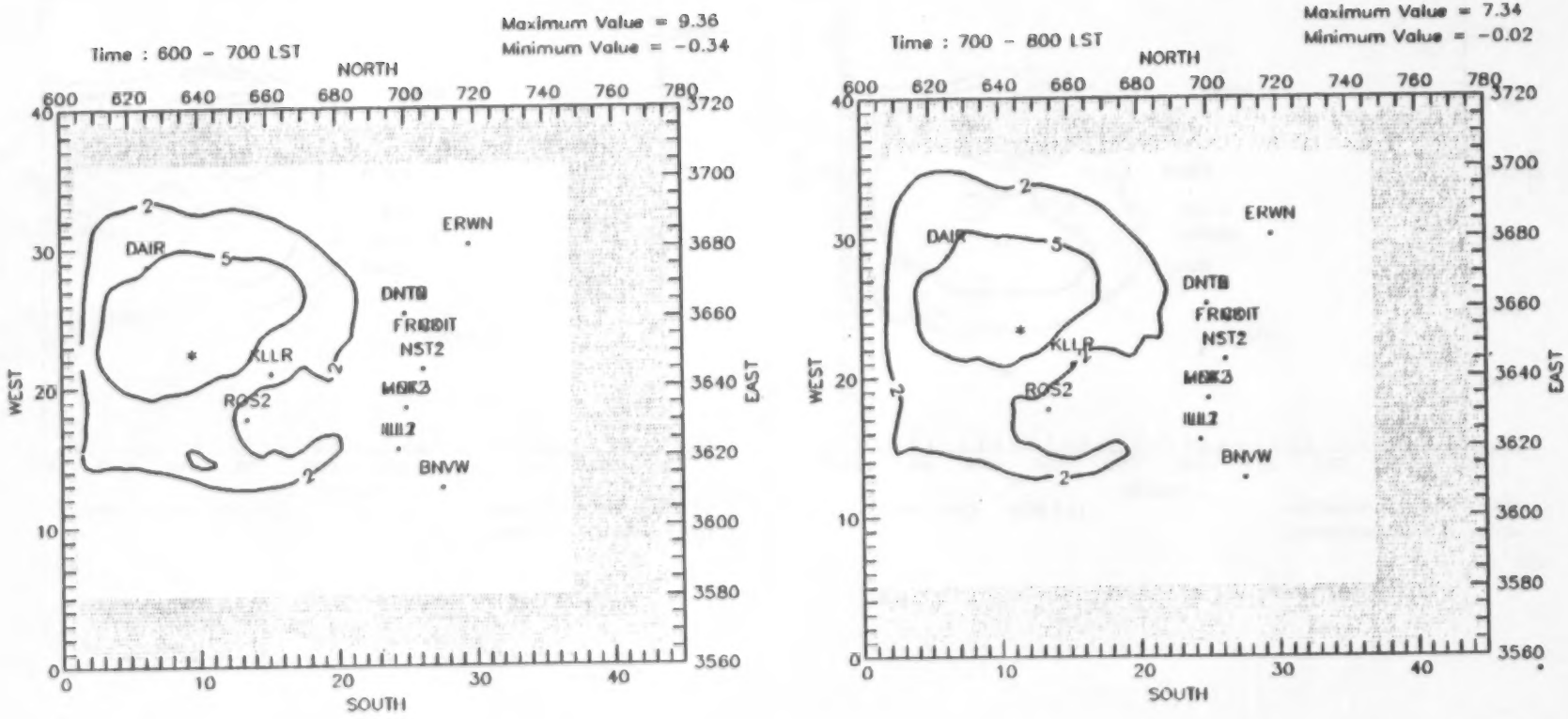


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.

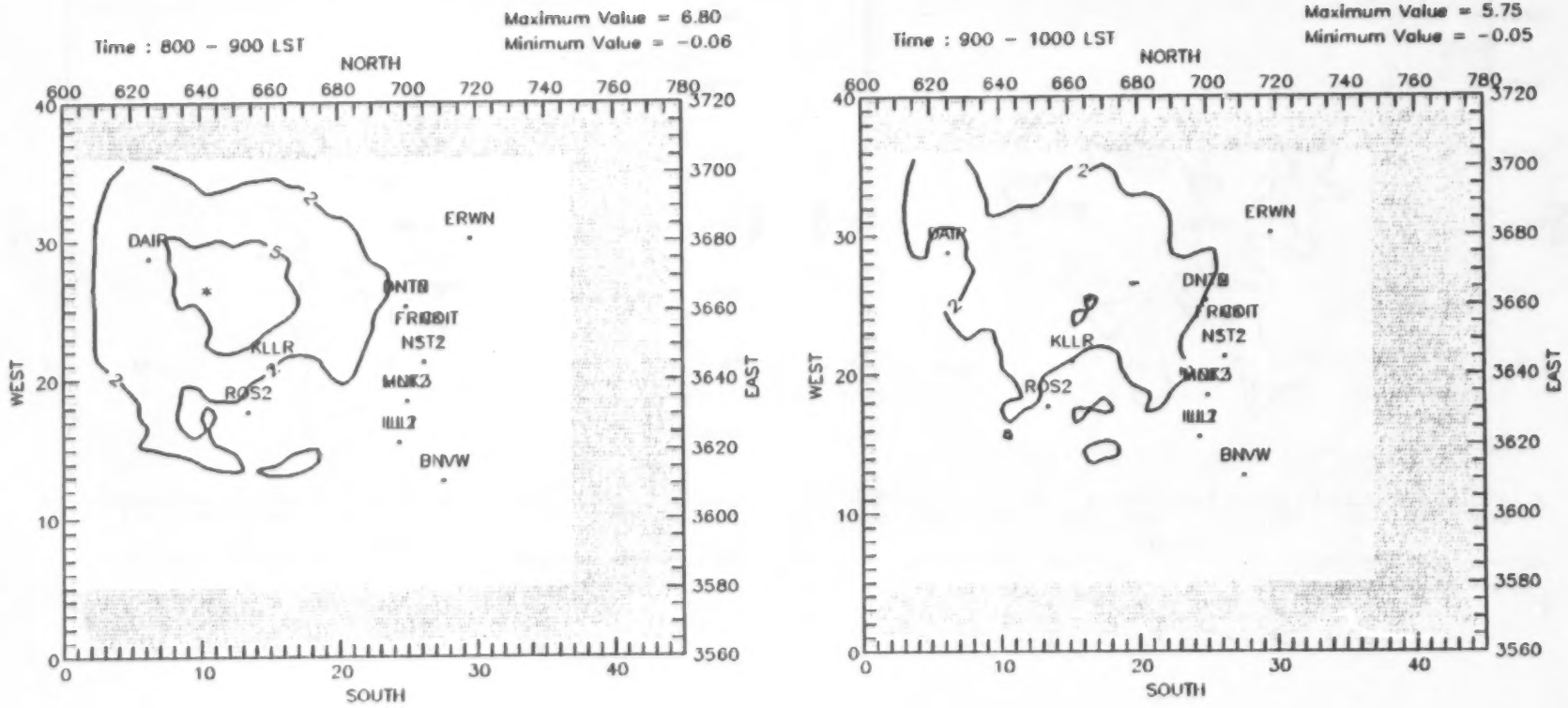




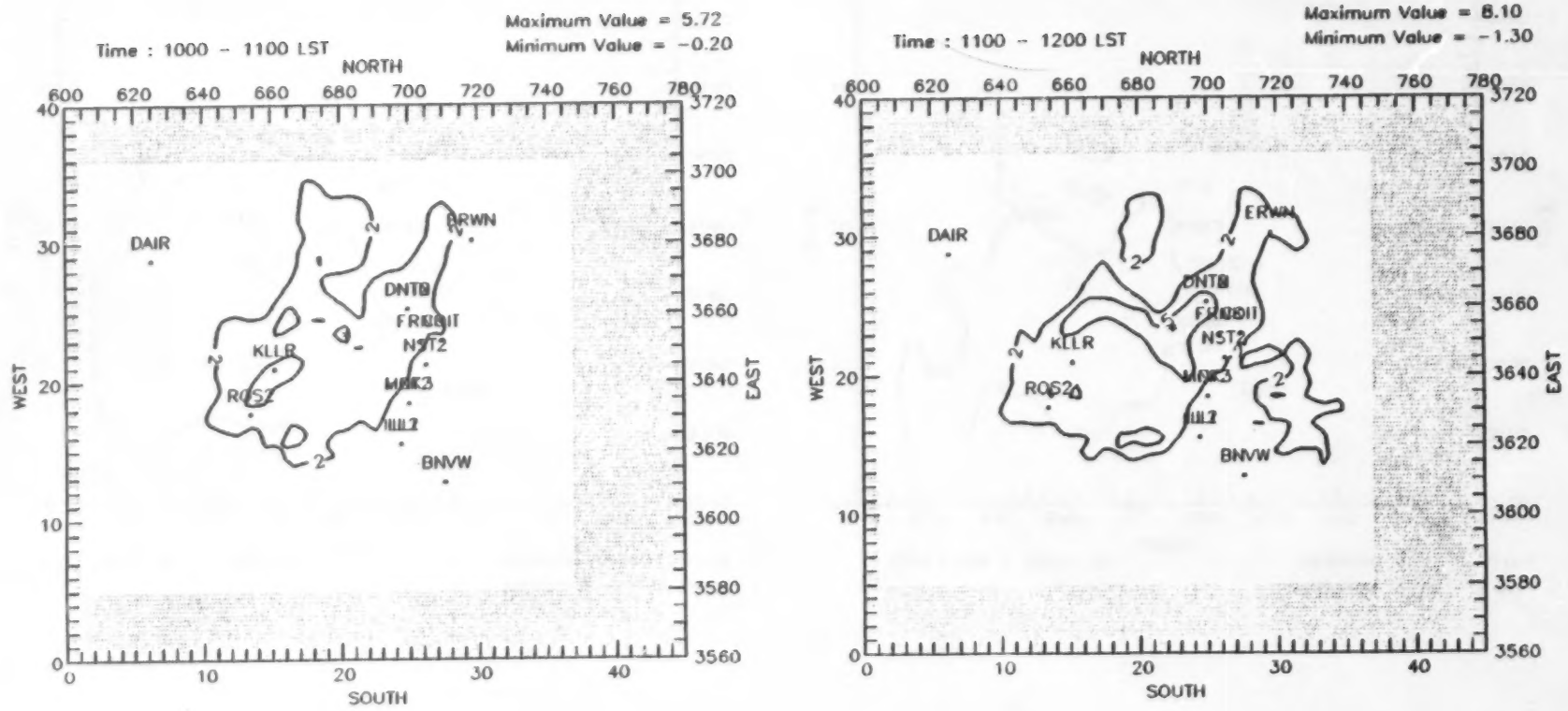
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.



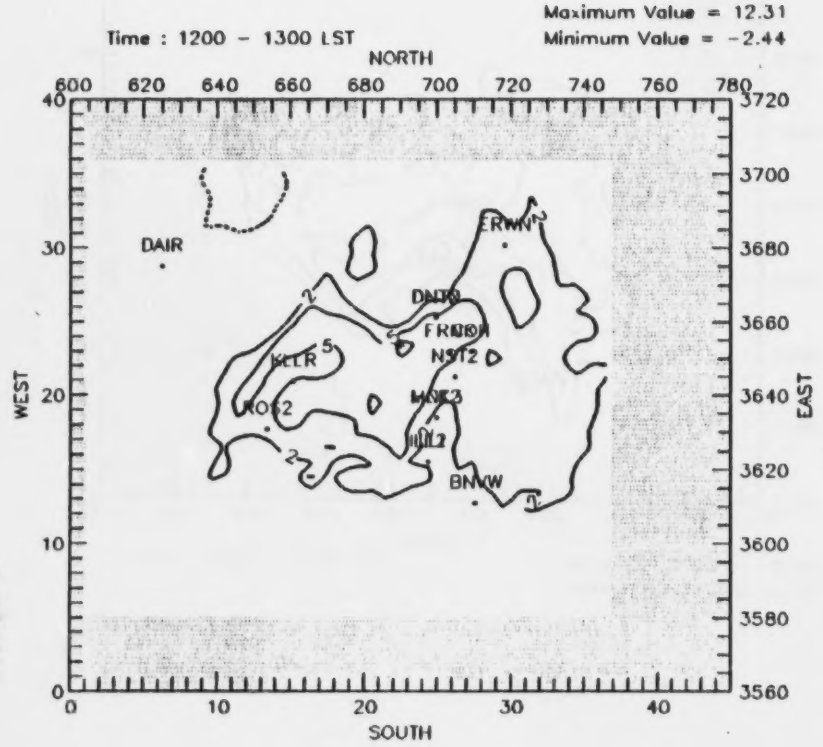
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.

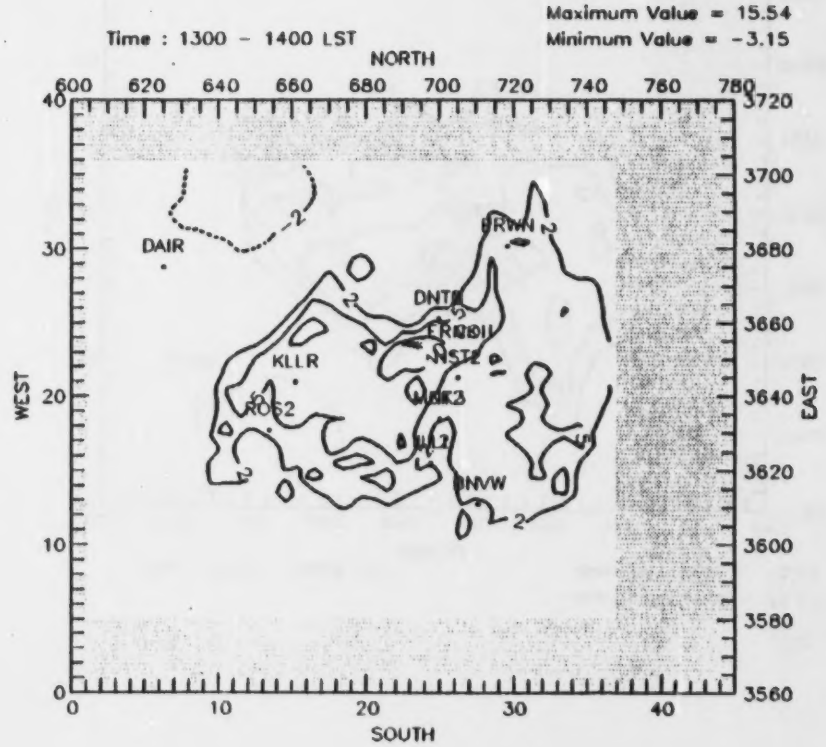


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.

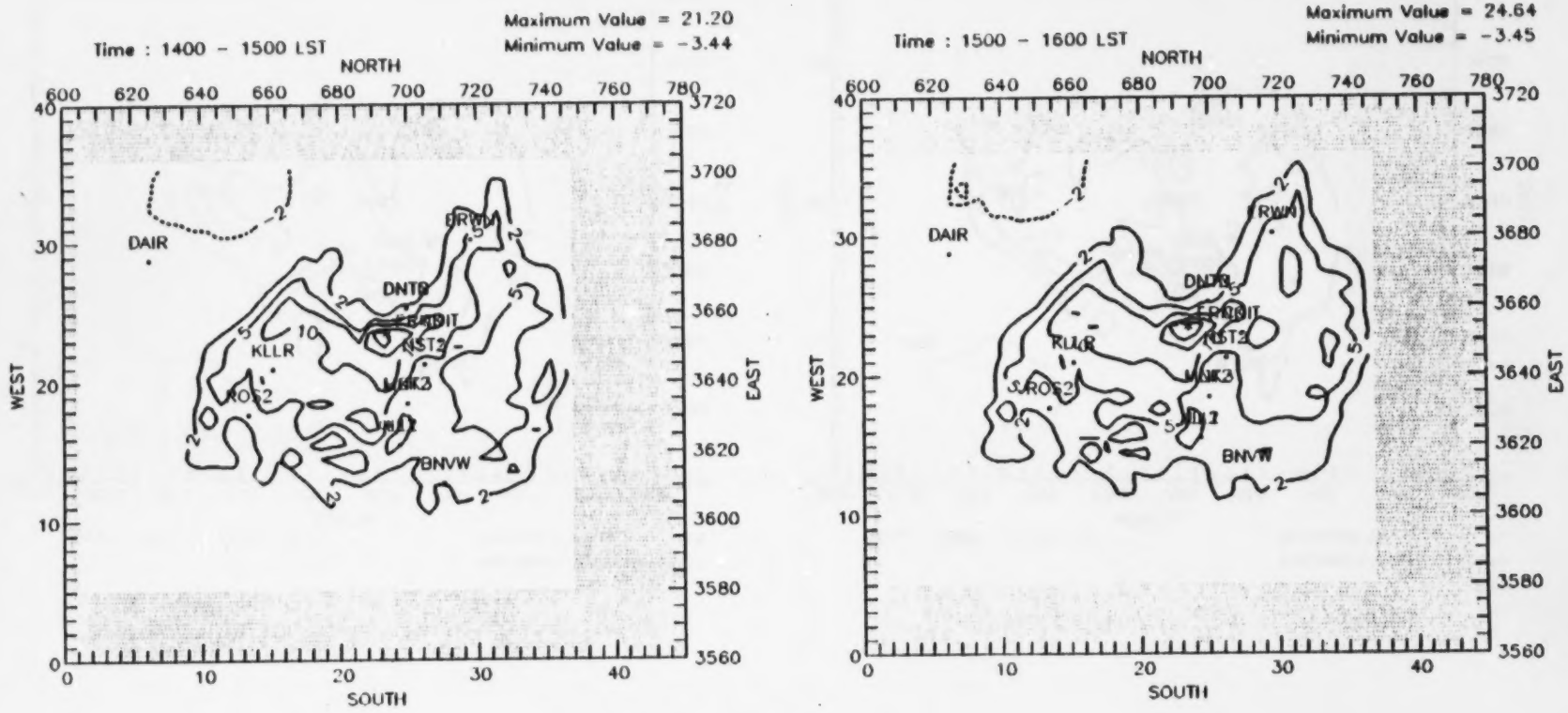


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.

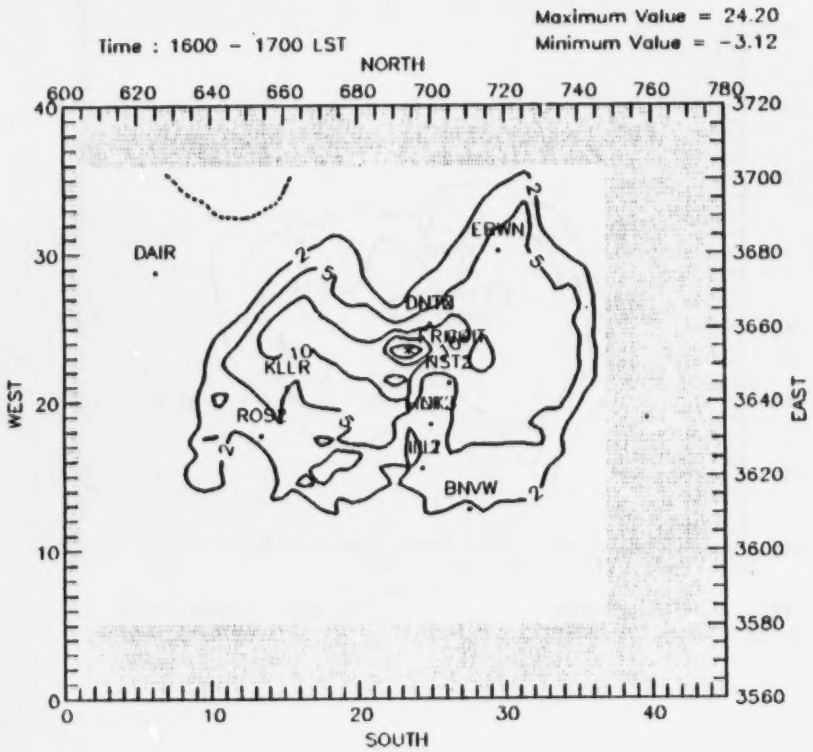


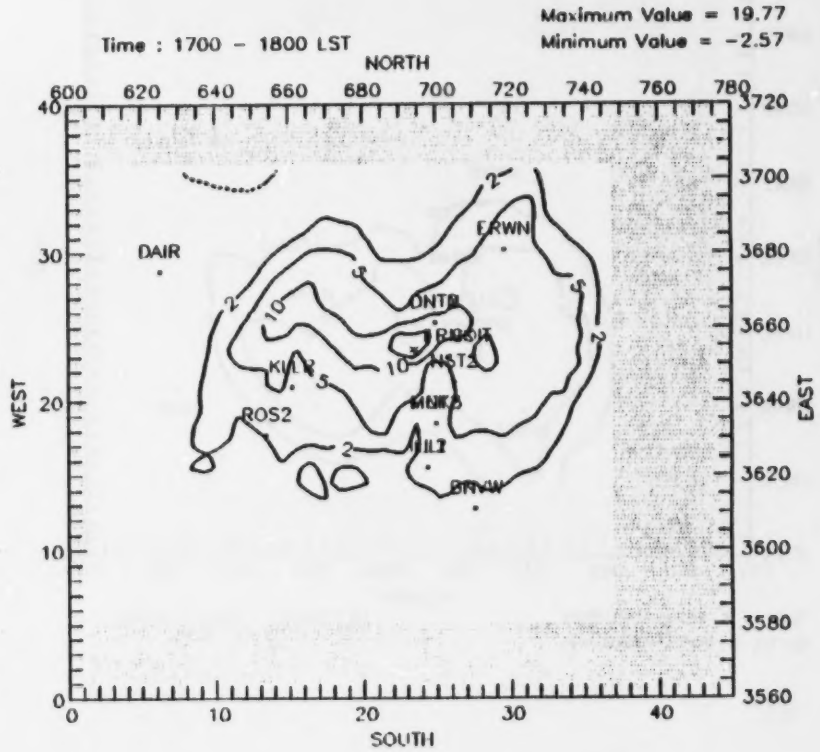


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.

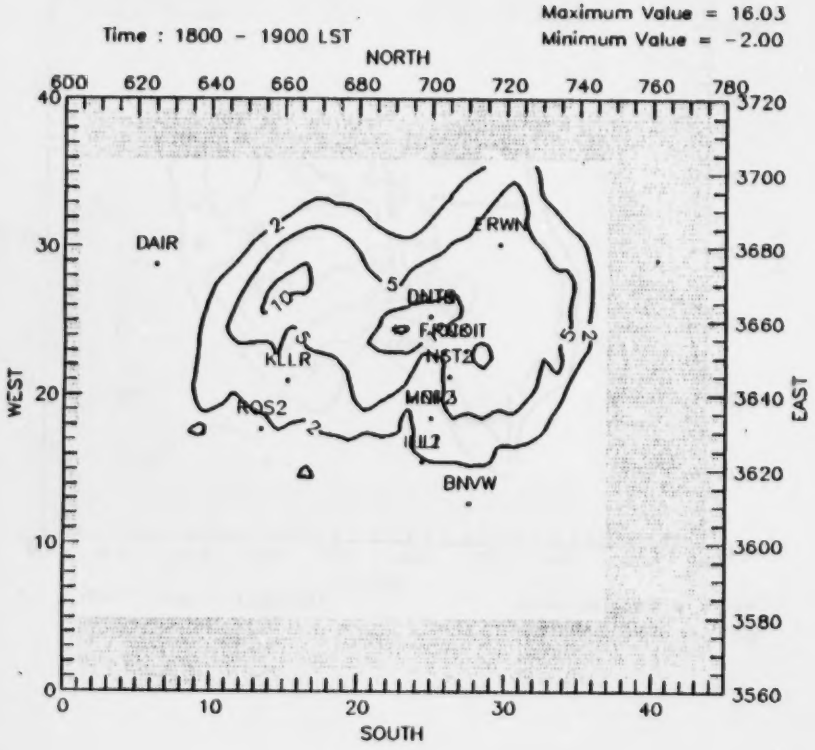


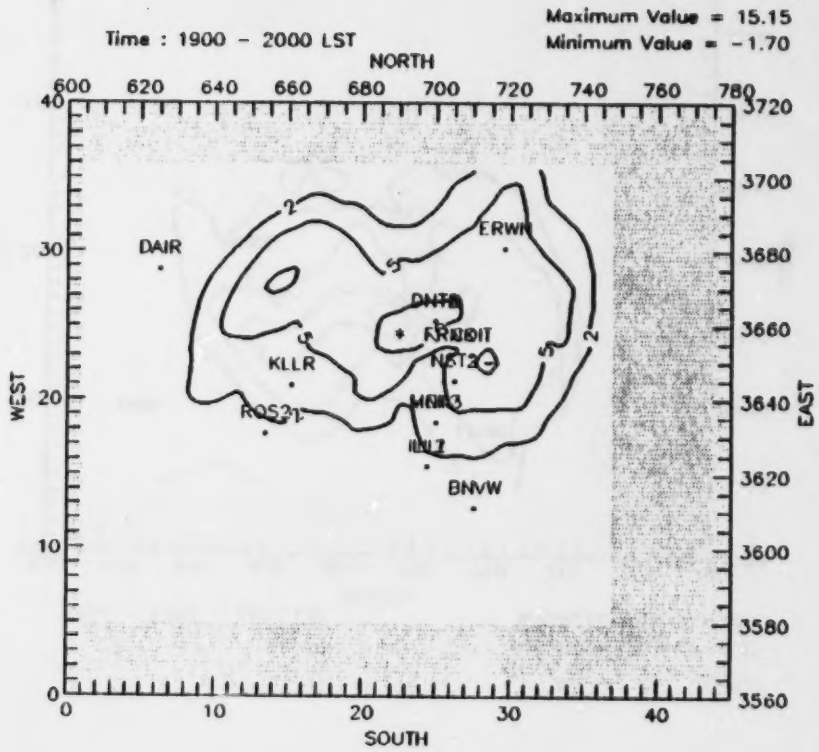
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.



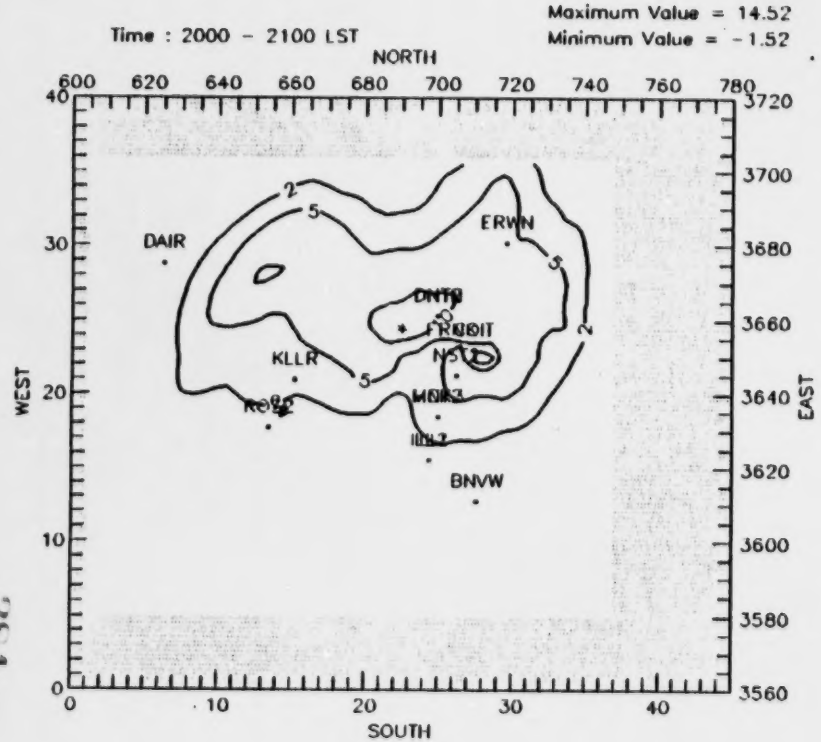


Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.





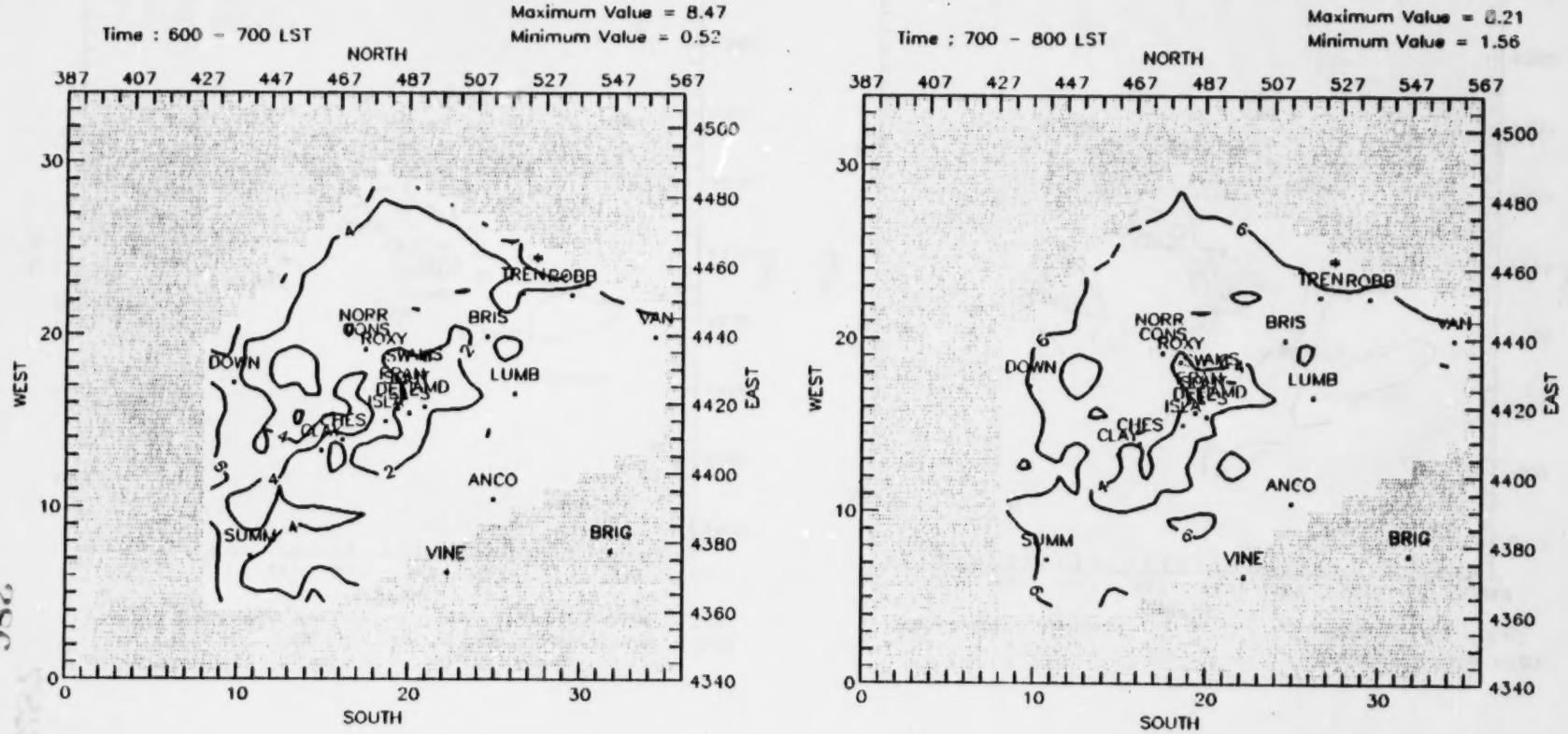
Differences in hourly ozone concentrations (ppb) for Dallas–Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.



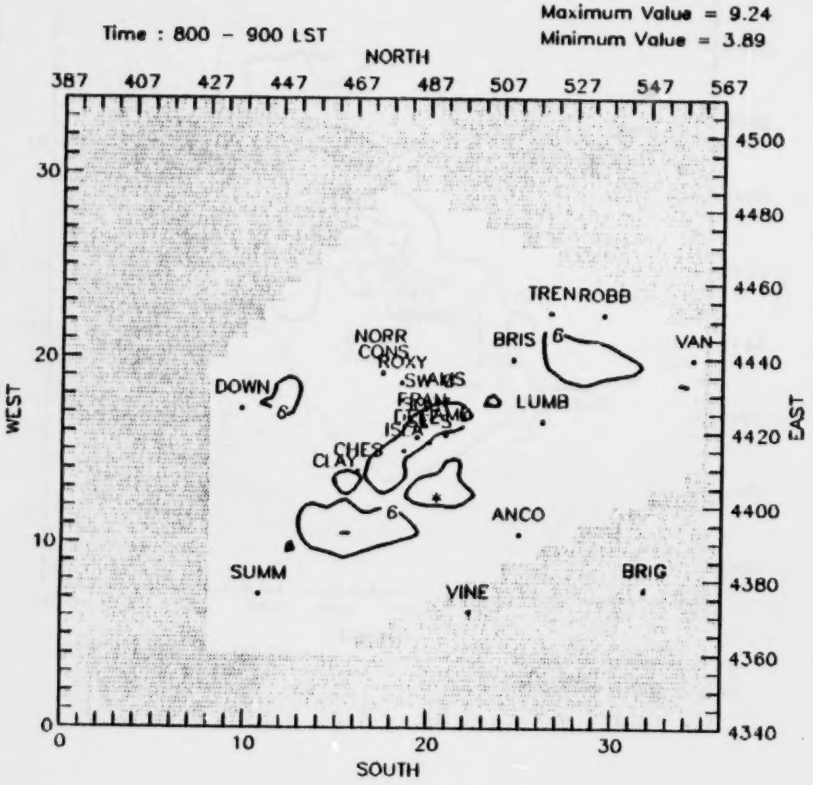
Differences in hourly ozone concentrations (ppb) for Dallas-Fort Worth between 1995 new reg gas and 1995 cng on 31 August, 1985.

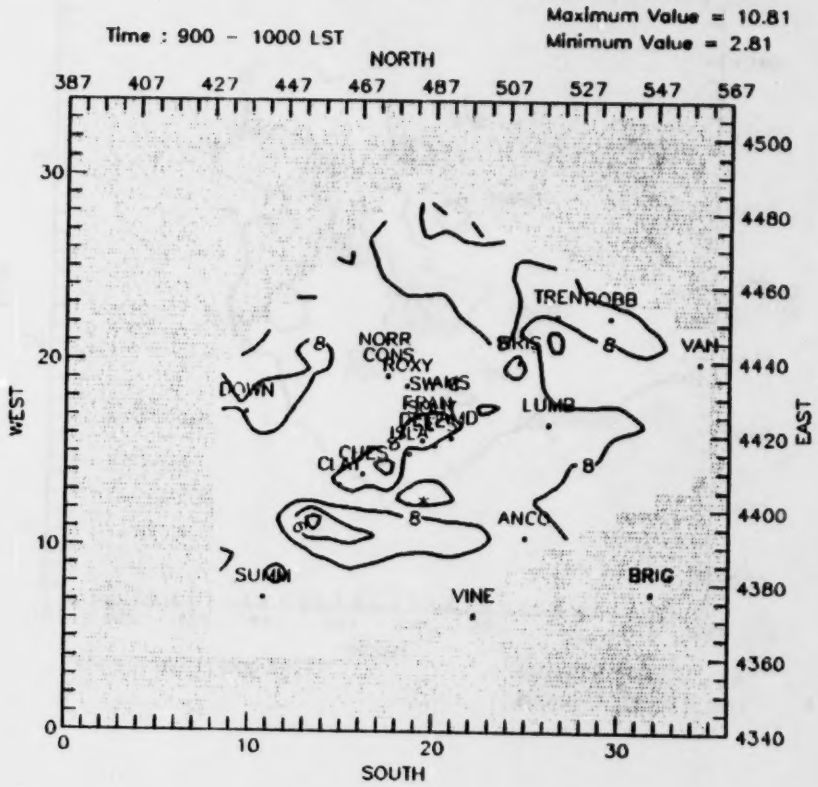
Appendix W

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR PHILADELPHIA 1995 BASE CASE EMISSION SCENARIO

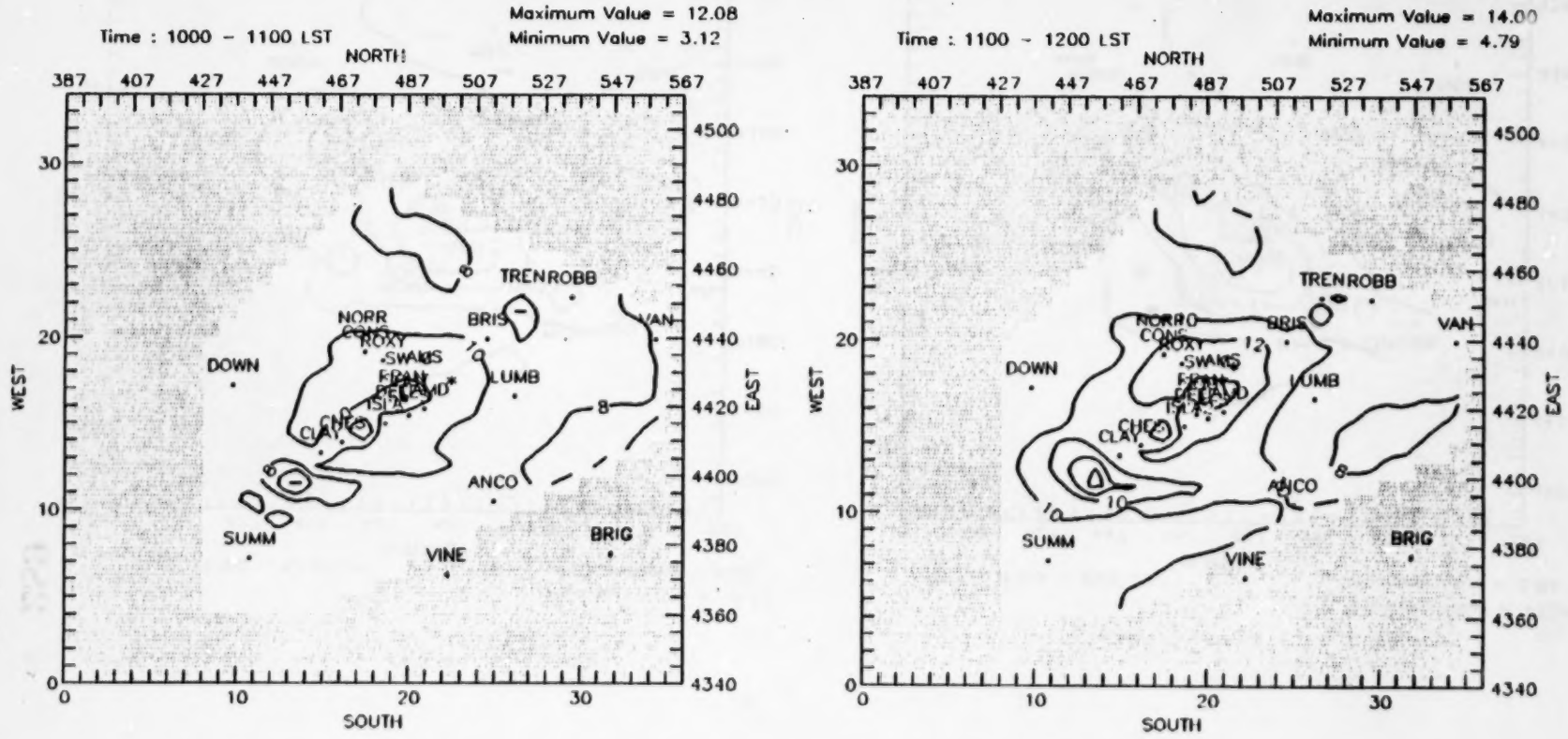


Predicted ozone concentrations (pphm) for Philadelphia 1995 base case on 13 July, 1979.

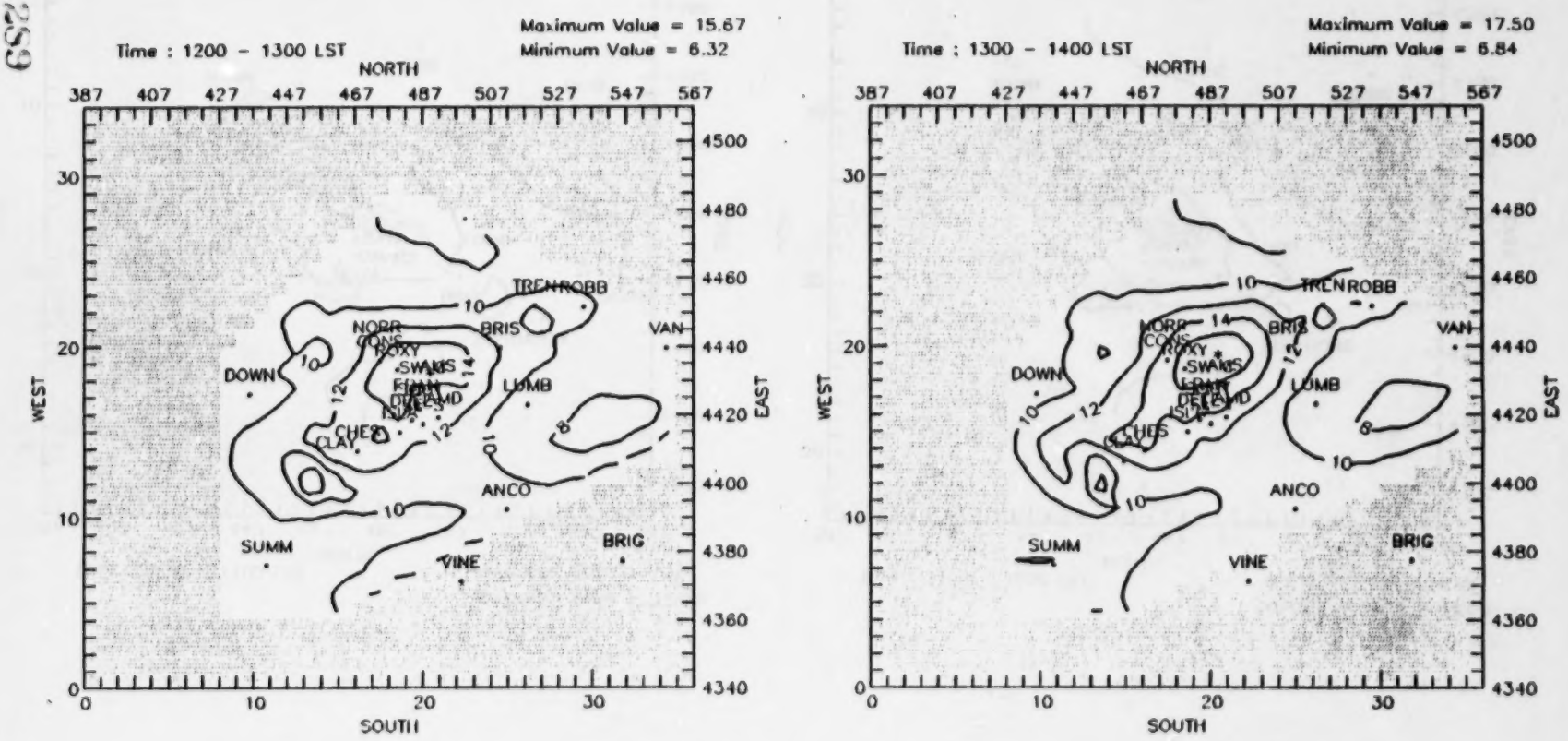




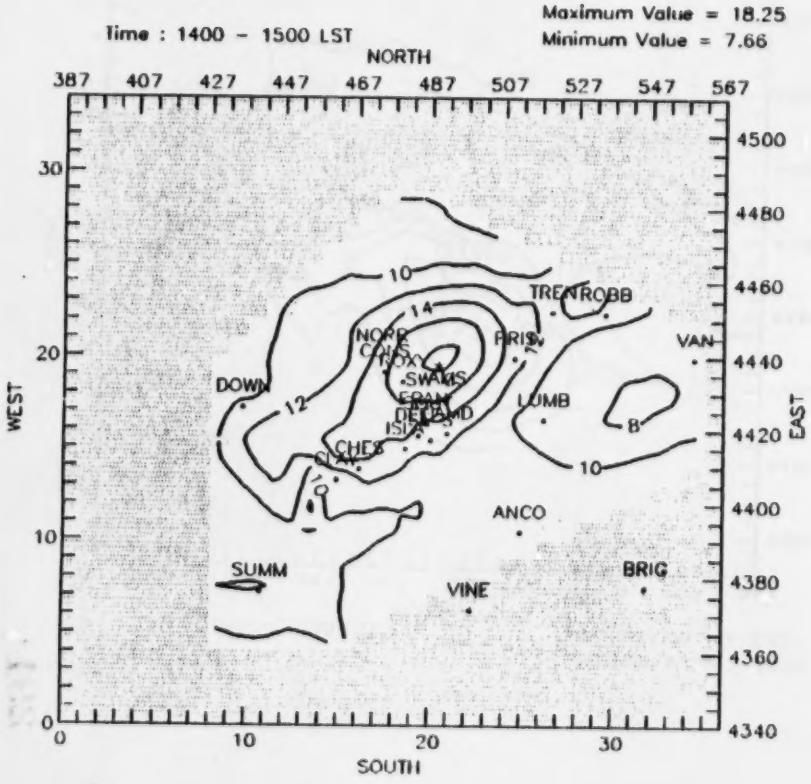
Predicted ozone concentrations (pphm) for Philadelphia 1995 base case on 13 July, 1979.

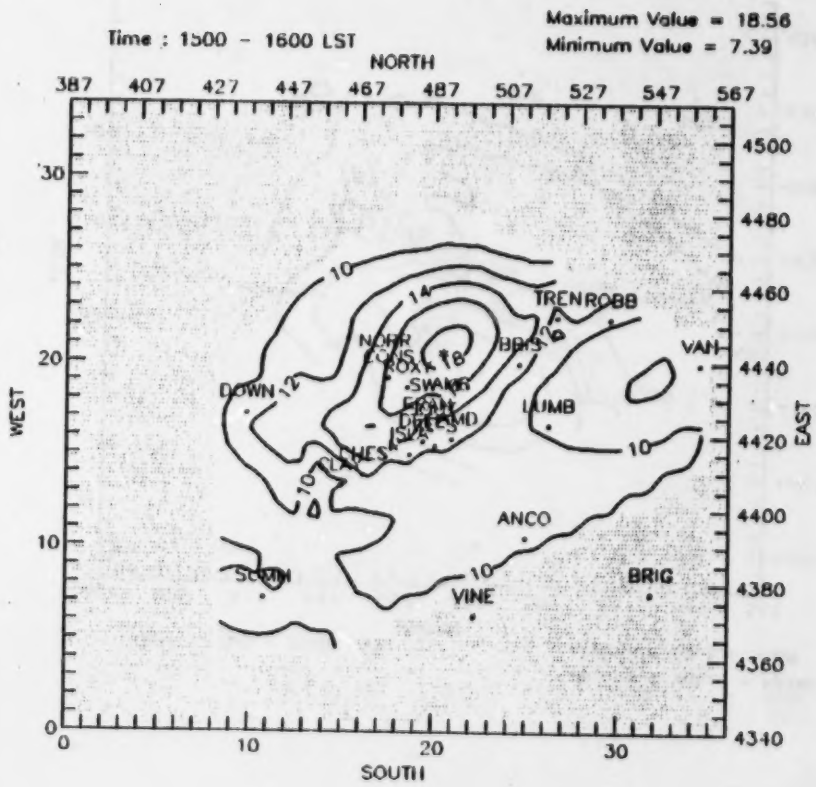


Predicted ozone concentrations (pphm) for Philadelphia 1995 base case on 13 July, 1979.



Predicted ozone concentrations (pphm) for Philadelphia 1995 base case on 13 July, 1979.





Predicted ozone concentrations (pphm) for Philadelphia 1995 base case on 13 July, 1979.

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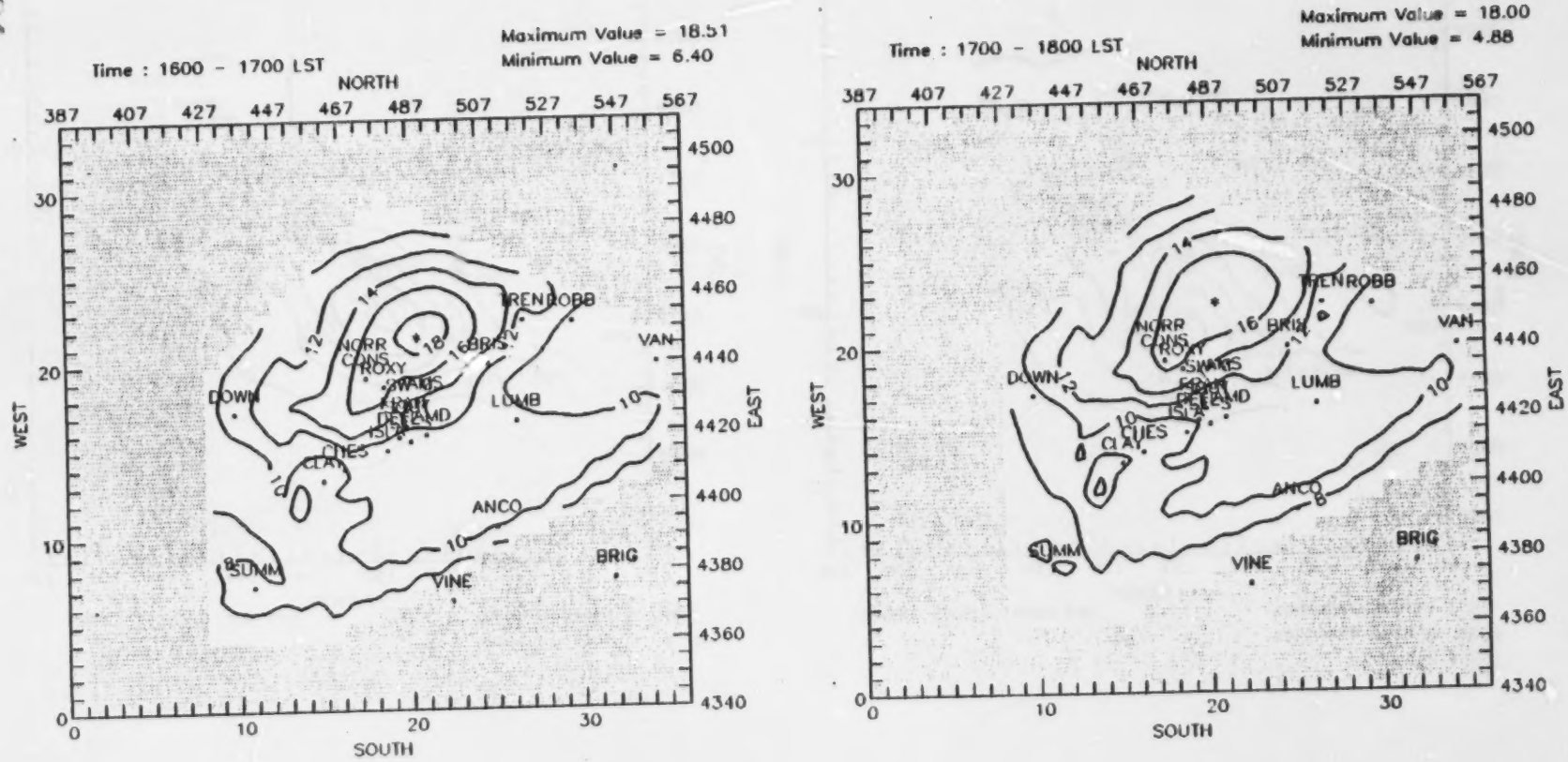
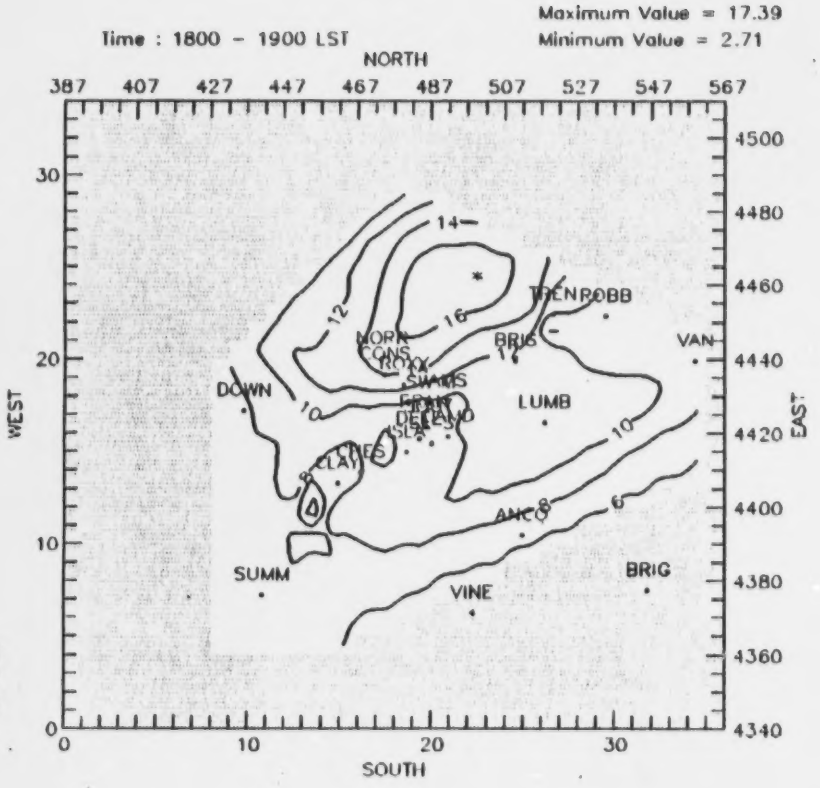
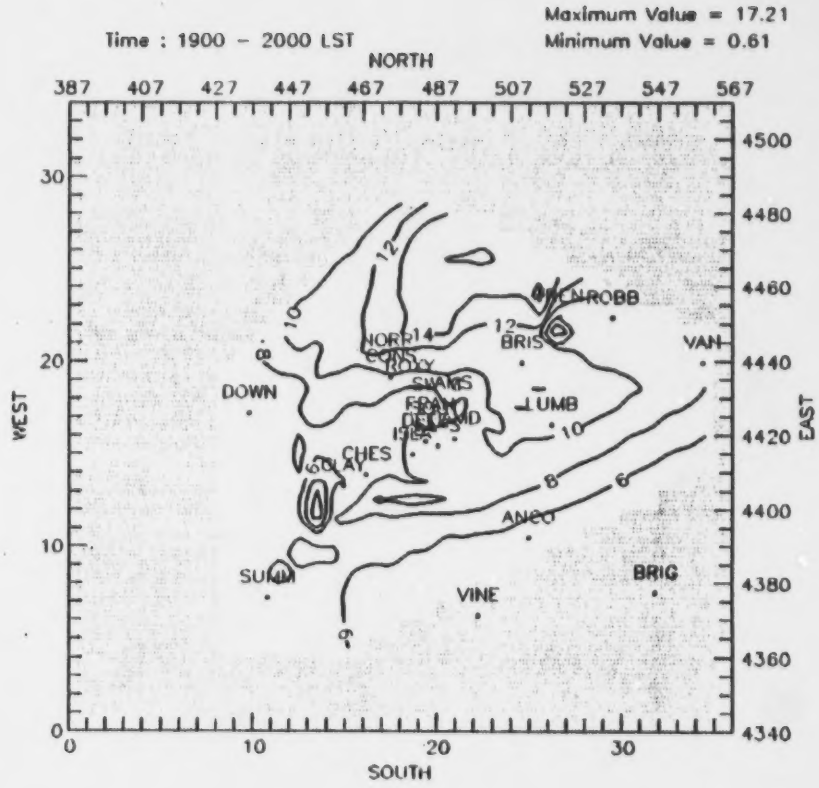


Predicted ozone concentrations (pphm) for Philadelphia 1995 base case on 13 July, 1979.

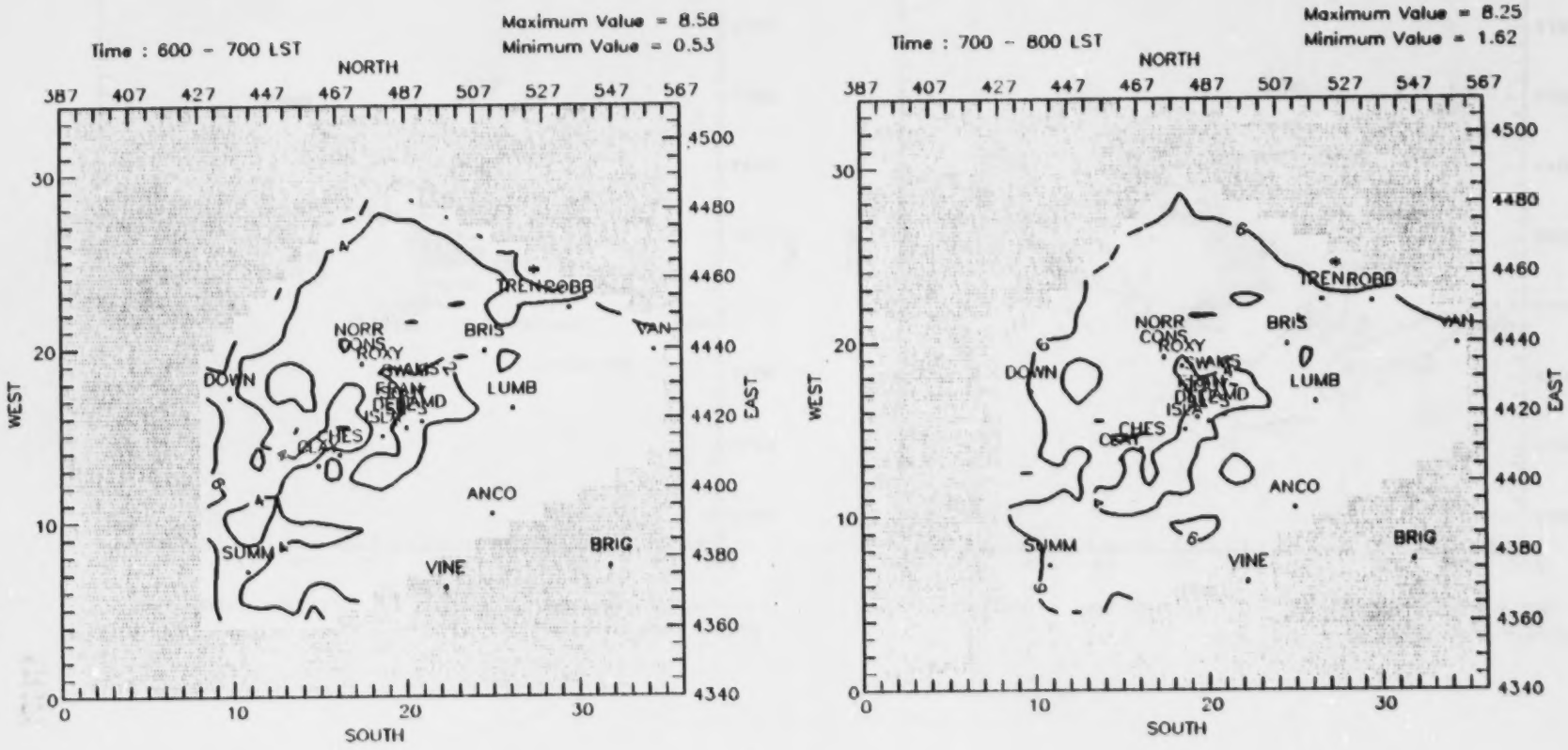




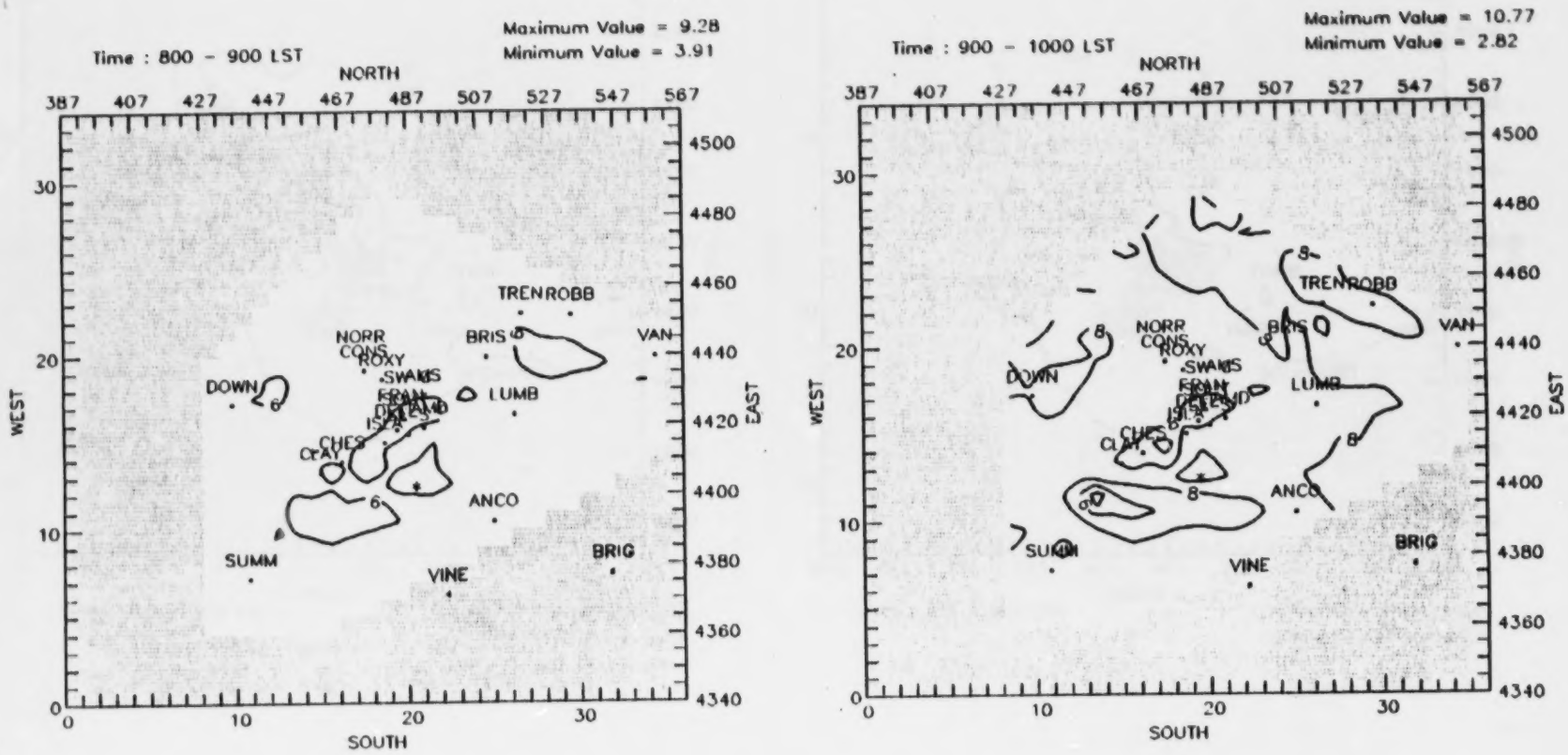
Predicted ozone concentrations (pphm) for Philadelphia 1995 base case on 13 July, 1979.

Appendix X

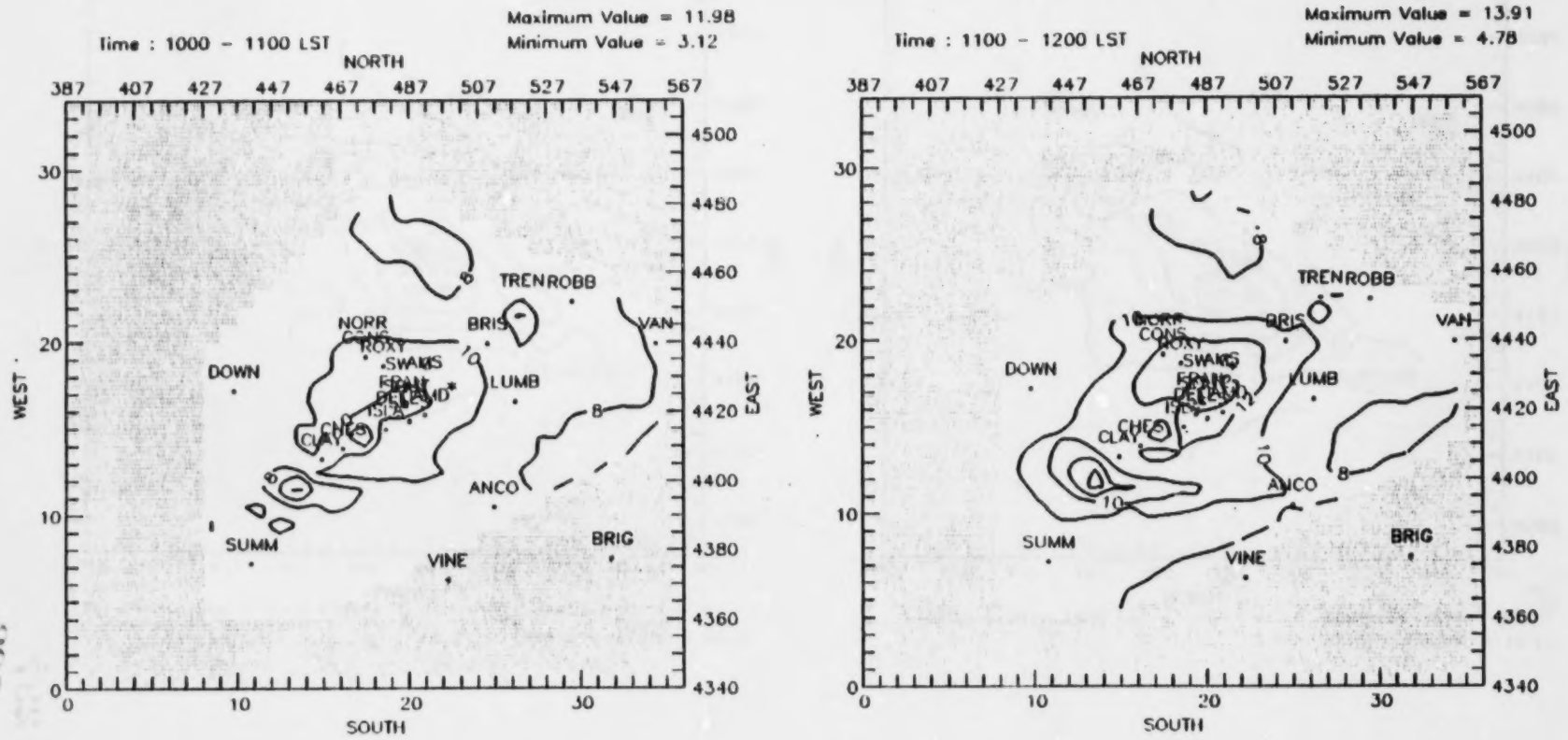
PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR PHILADELPHIA 1995 NEW REGULATION GAS VEHICLE EMISSION SCENARIOS



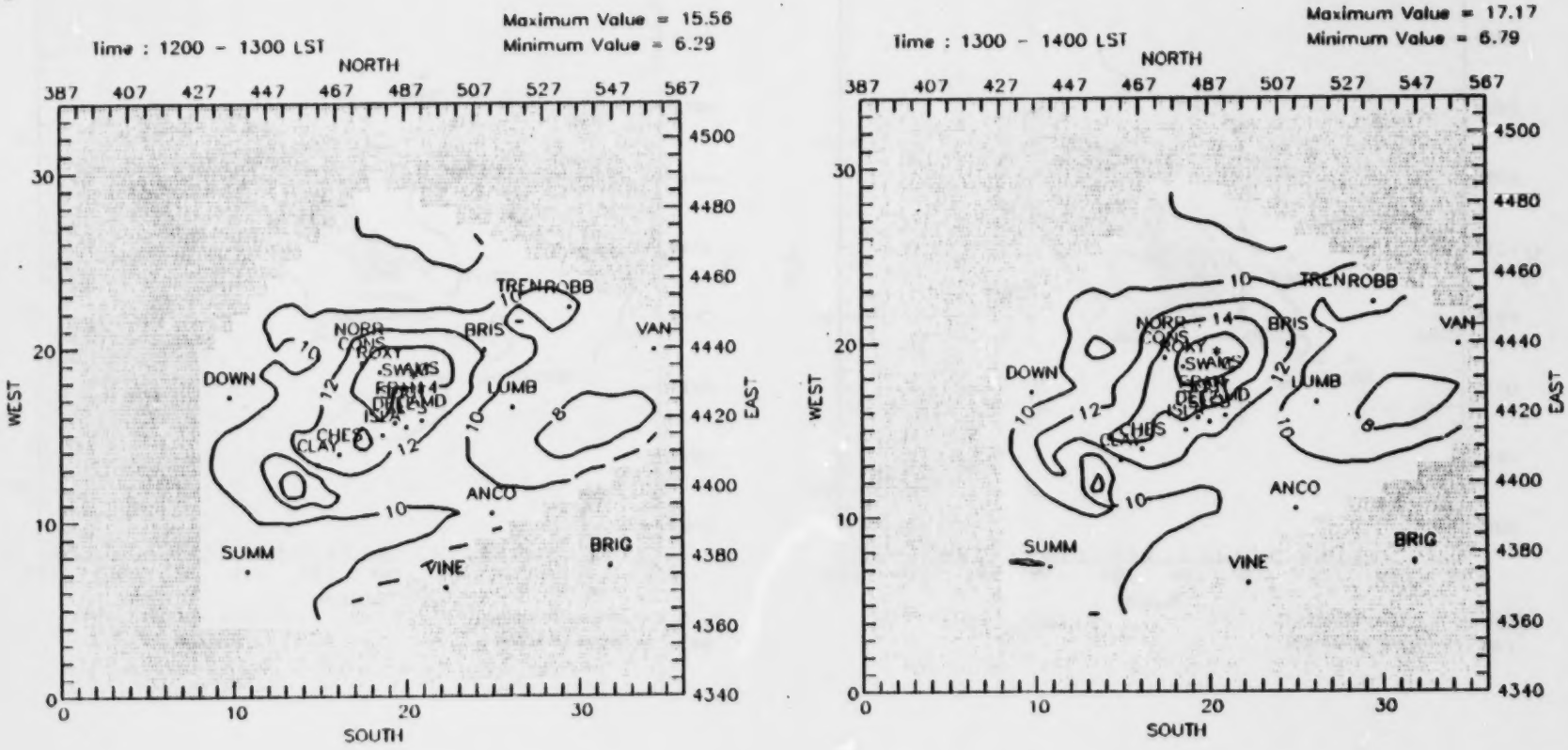
Predicted ozone concentrations (pphm) for Philadelphia 1995 new reg gas scenario on 13 July, 1979.



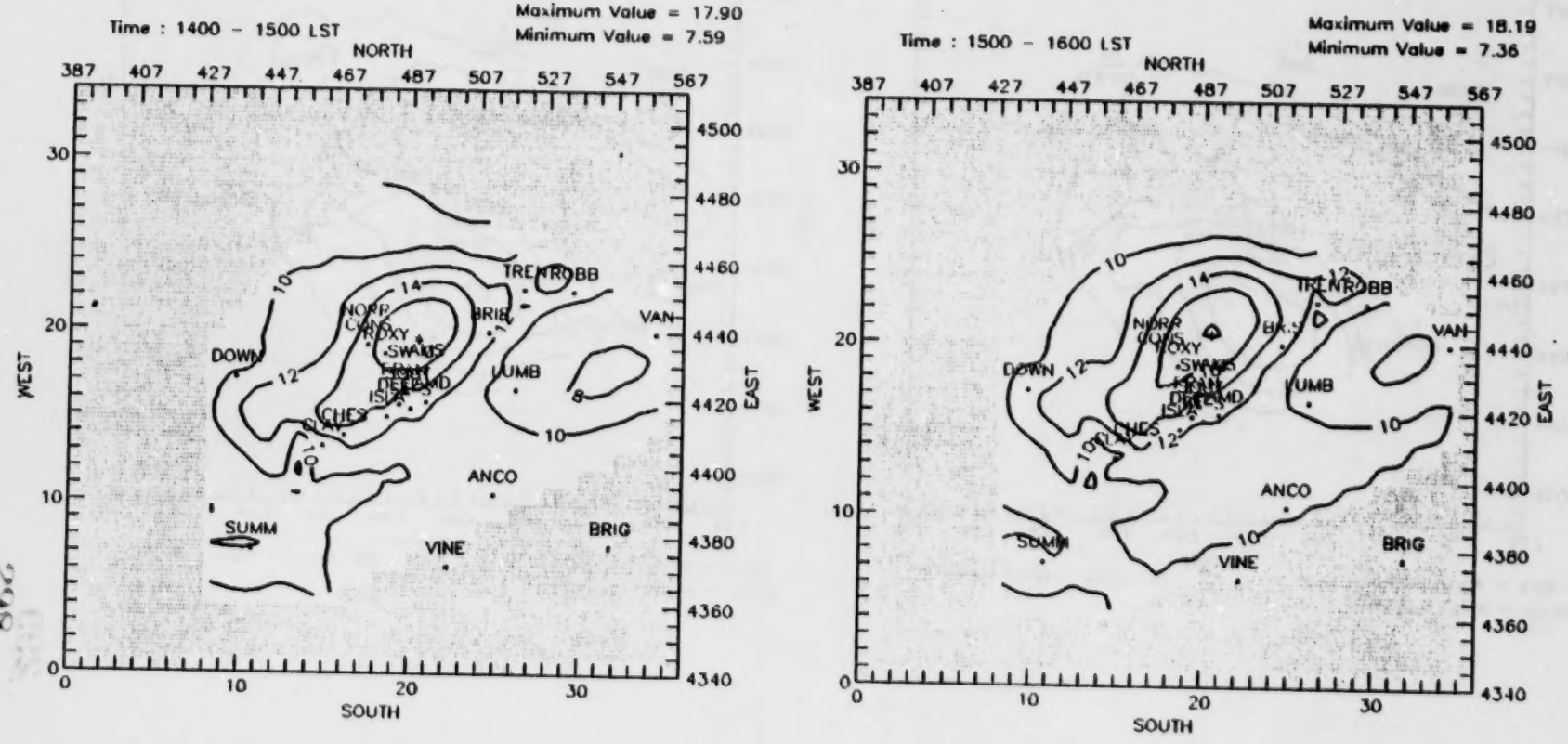
Predicted ozone concentrations (pphm) for Philadelphia 1995 new reg gas scenario on 13 July, 1979.



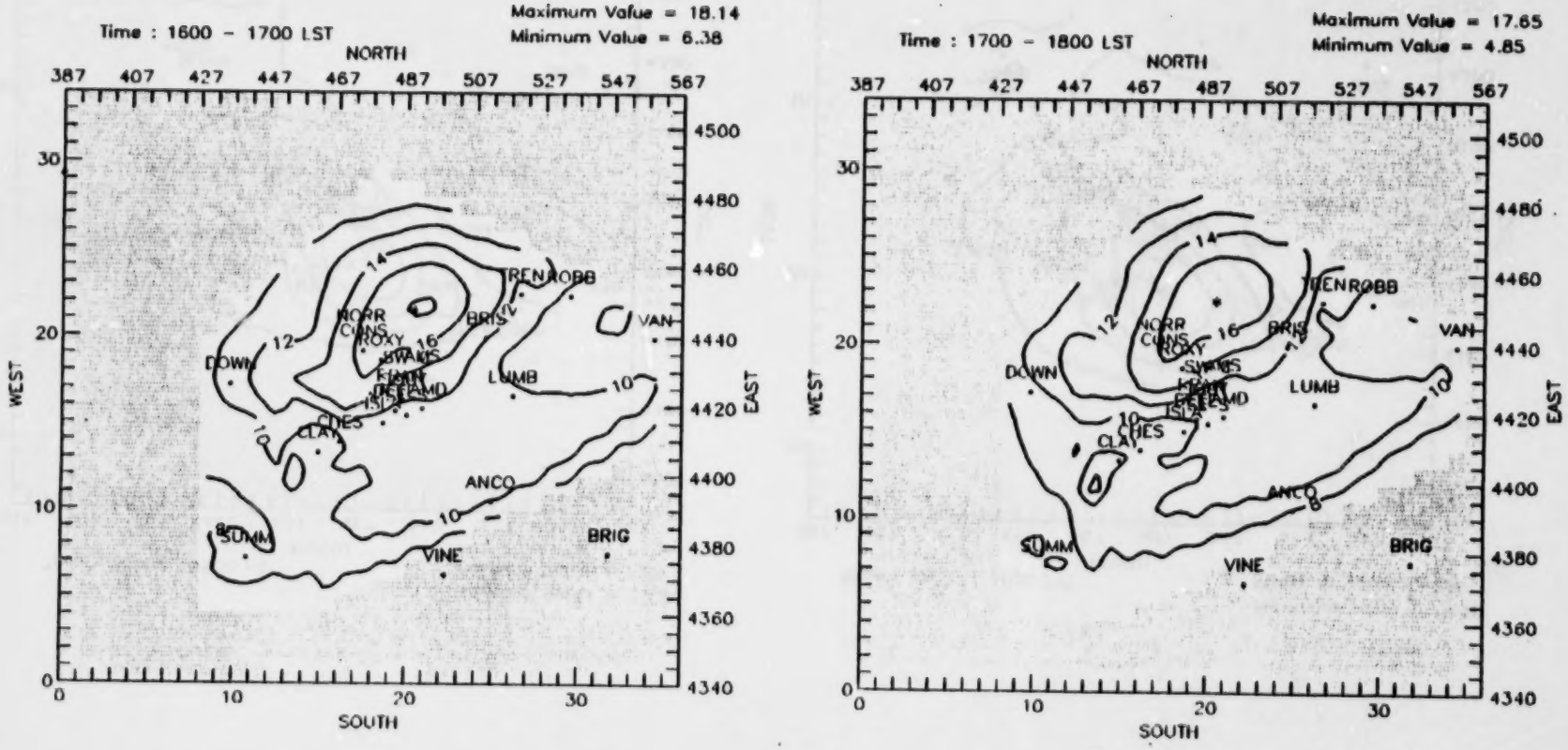
Predicted ozone concentrations (pphm) for Philadelphia 1995 new reg gas scenario on 13 July, 1979.



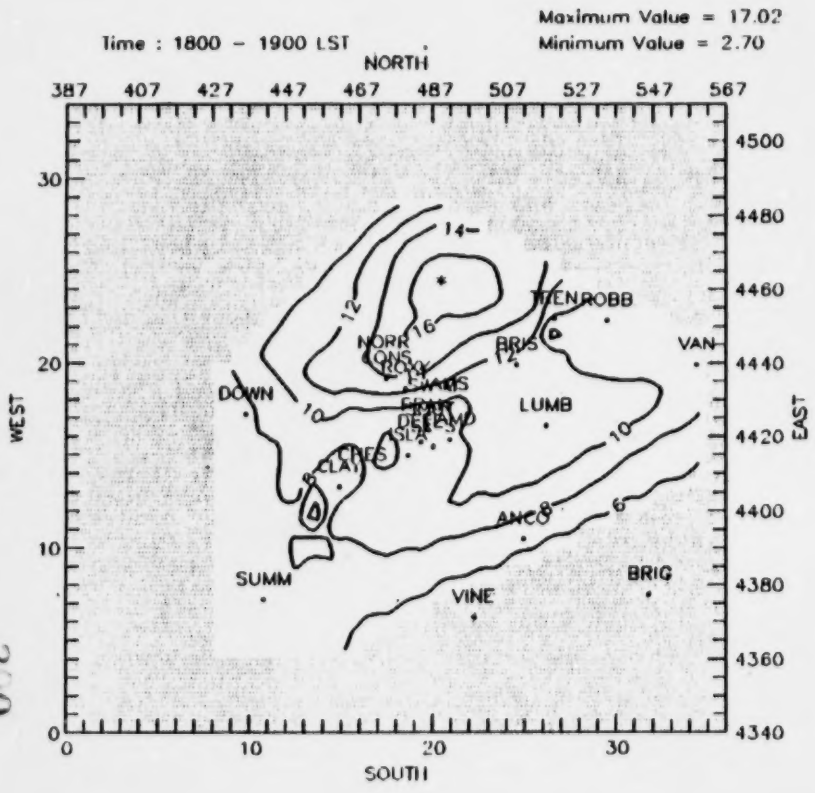
Predicted ozone concentrations (pphm) for Philadelphia 1995 new reg gas scenario on 13 July, 1979.

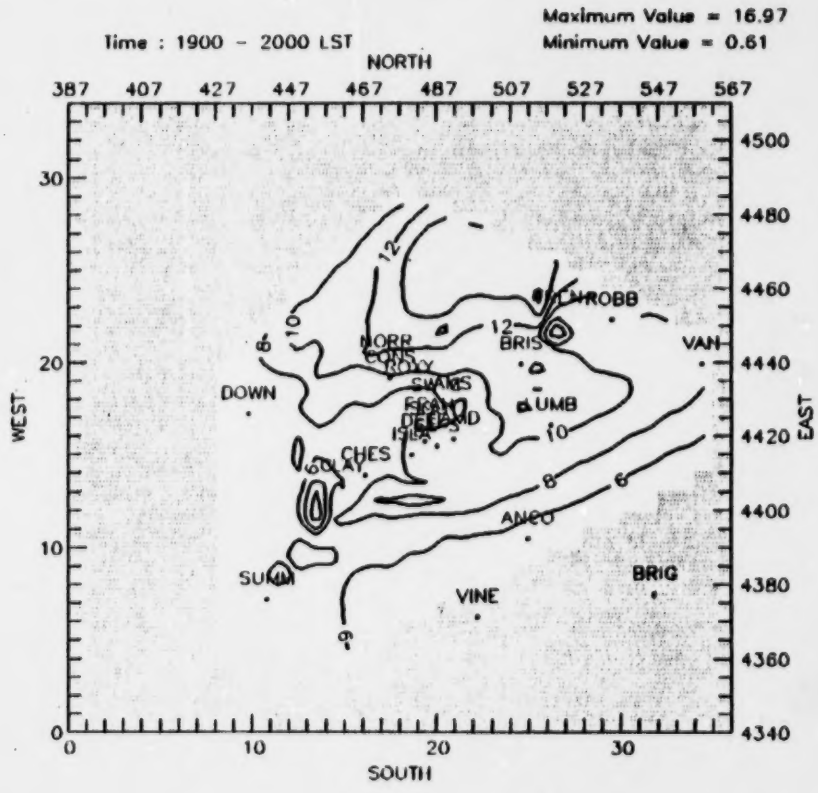


Predicted ozone concentrations (pphm) for Philadelphia 1995 new reg gas scenario on 13 July, 1979.



Predicted ozone concentrations (pphm) for Philadelphia 1995 new reg gas scenario on 13 July, 1979.

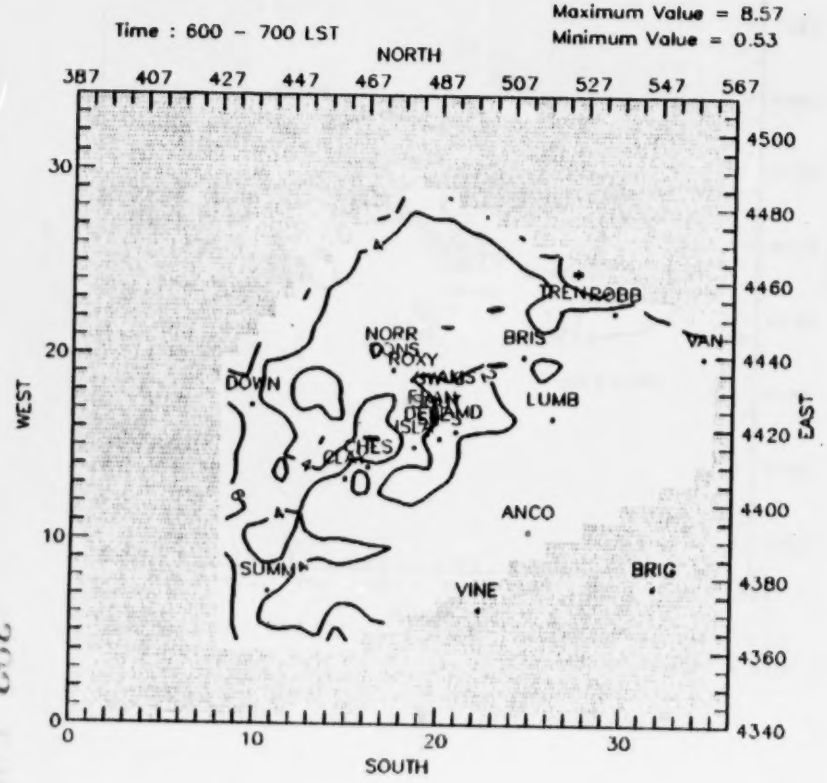


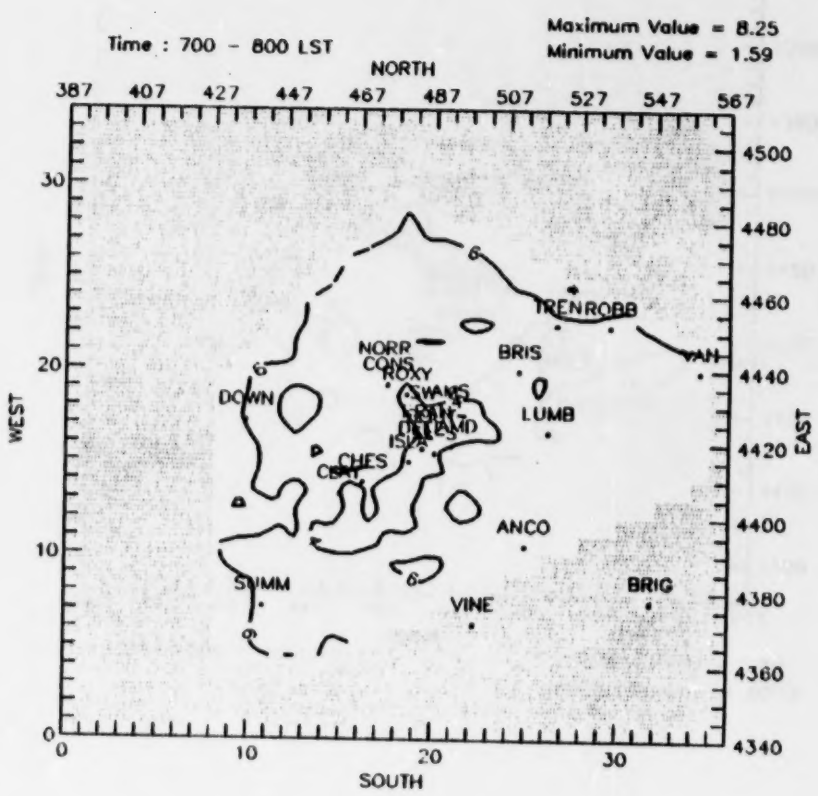


Predicted ozone concentrations (pphm) for Philadelphia 1995 new reg gas scenario on 13 July, 1979.

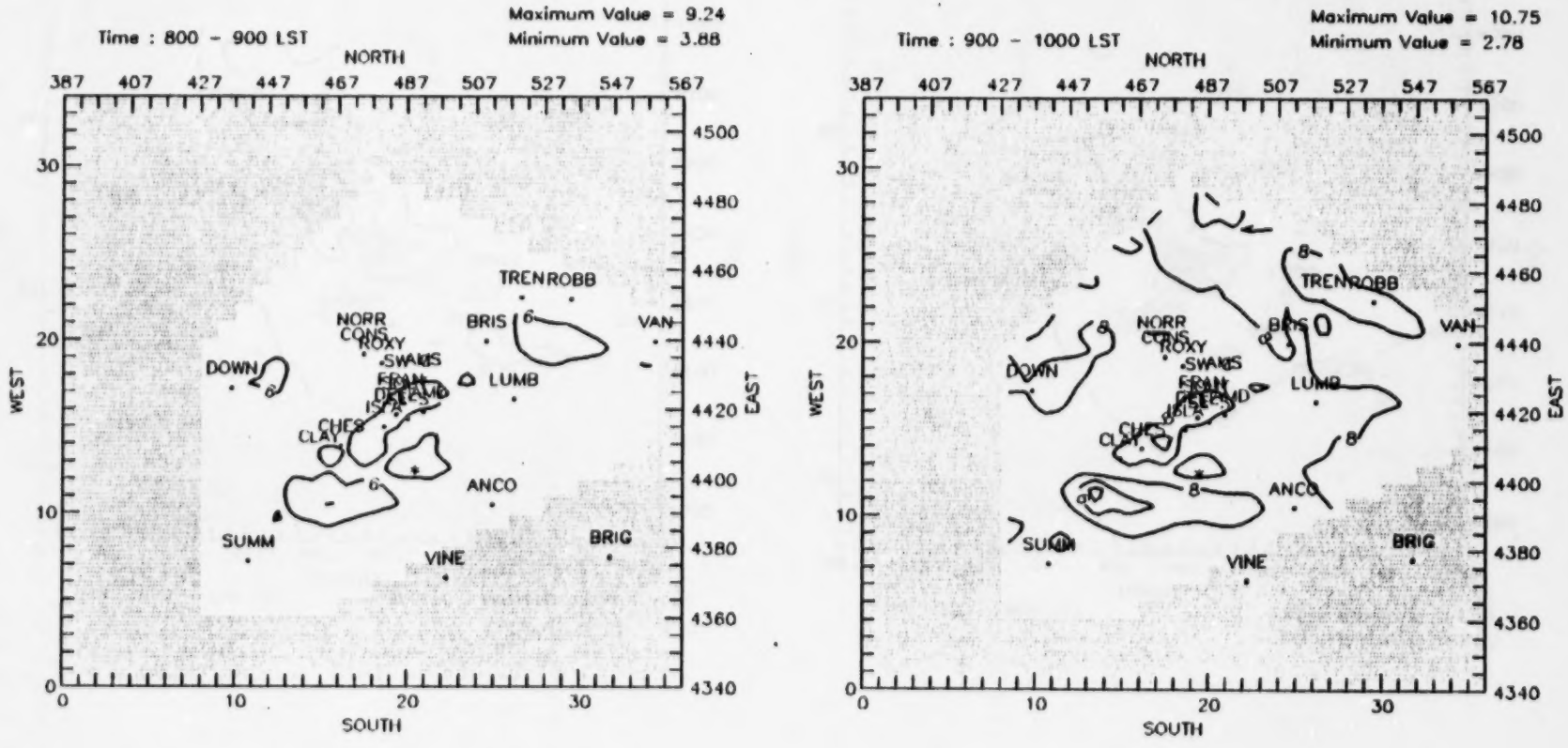
Appendix Y

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR 1995
100 PERCENT METHANOL (M100) VEHICLE EMISSION SCENARIOS

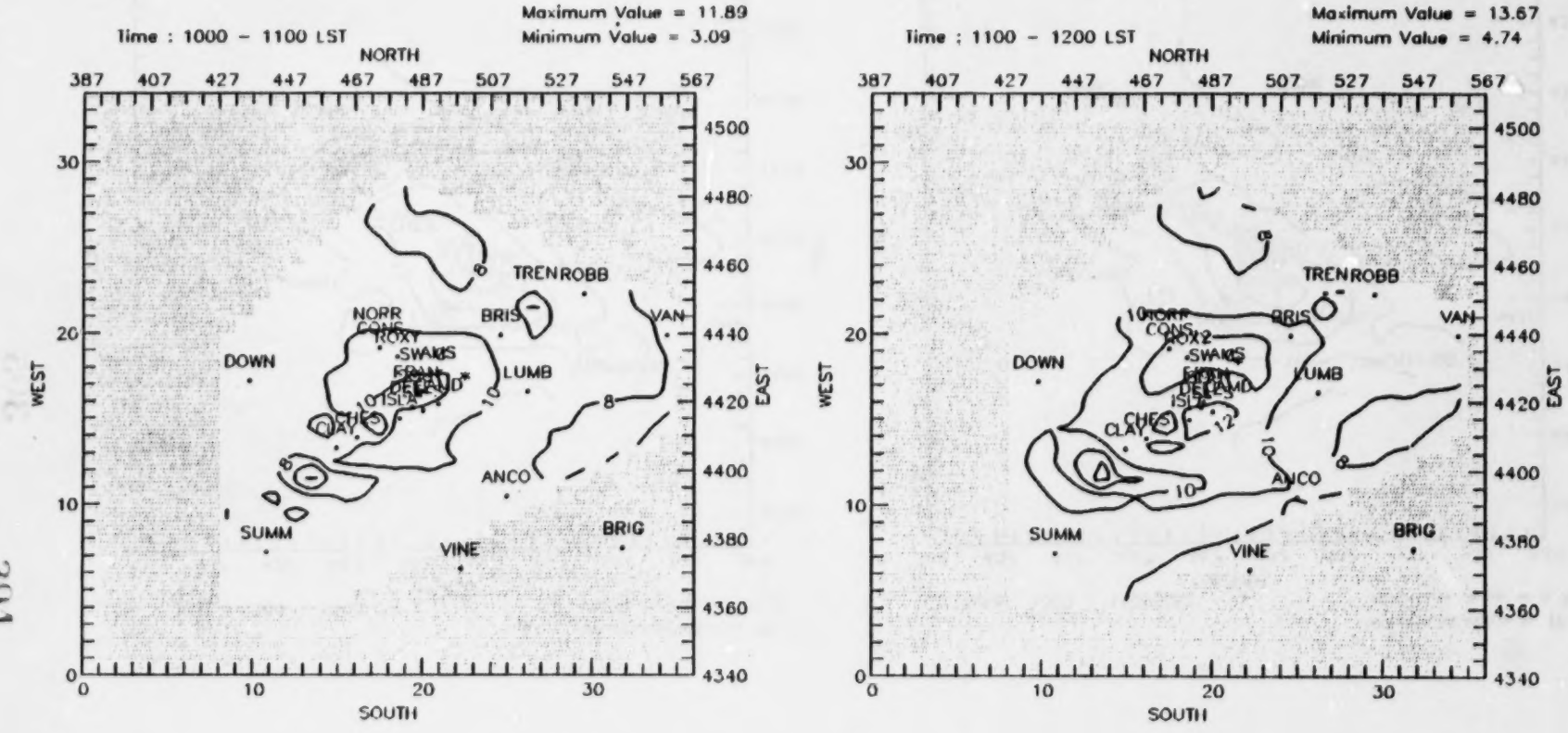




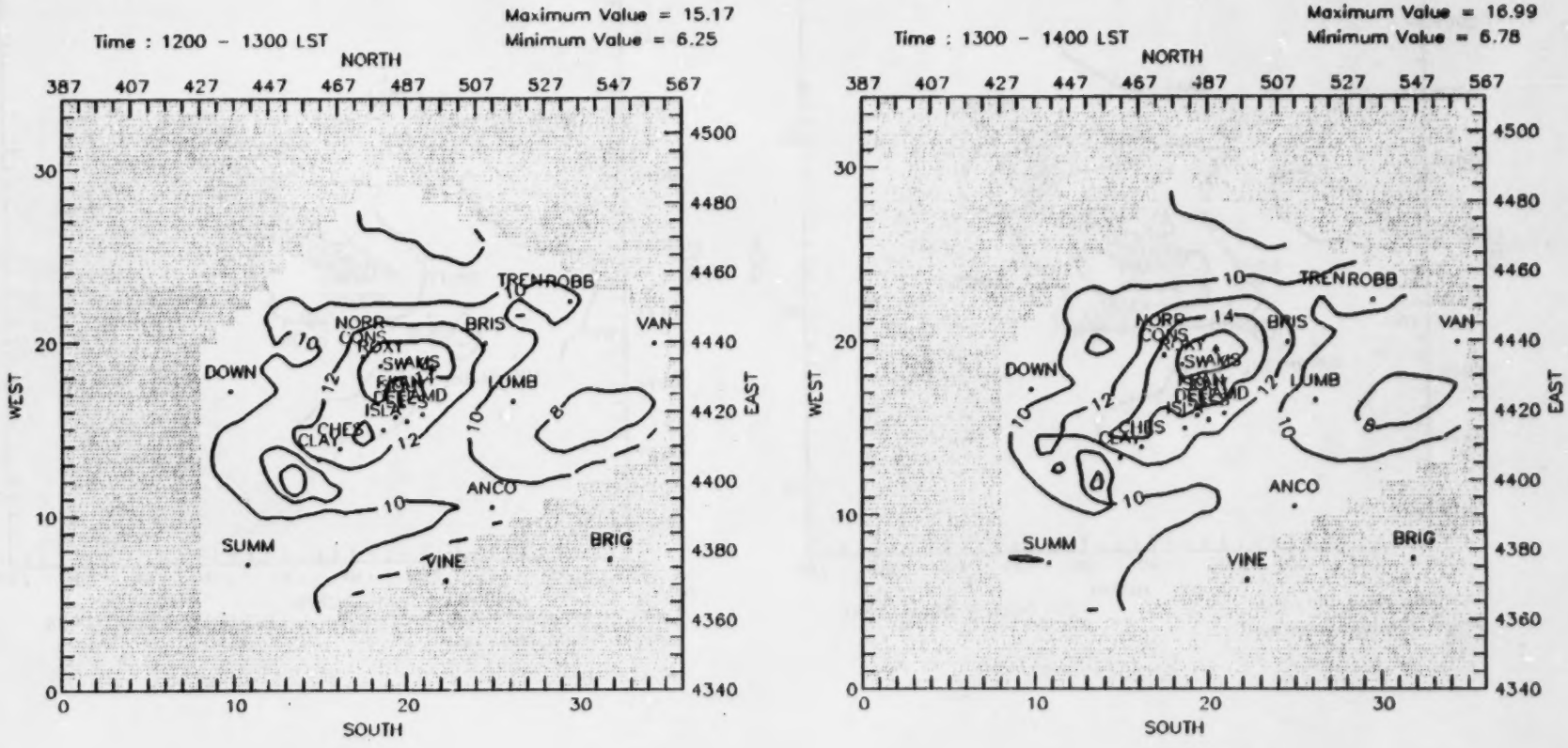
Predicted ozone concentrations (pphm) for Philadelphia 1995 m100 scenario on 13 July, 1979.



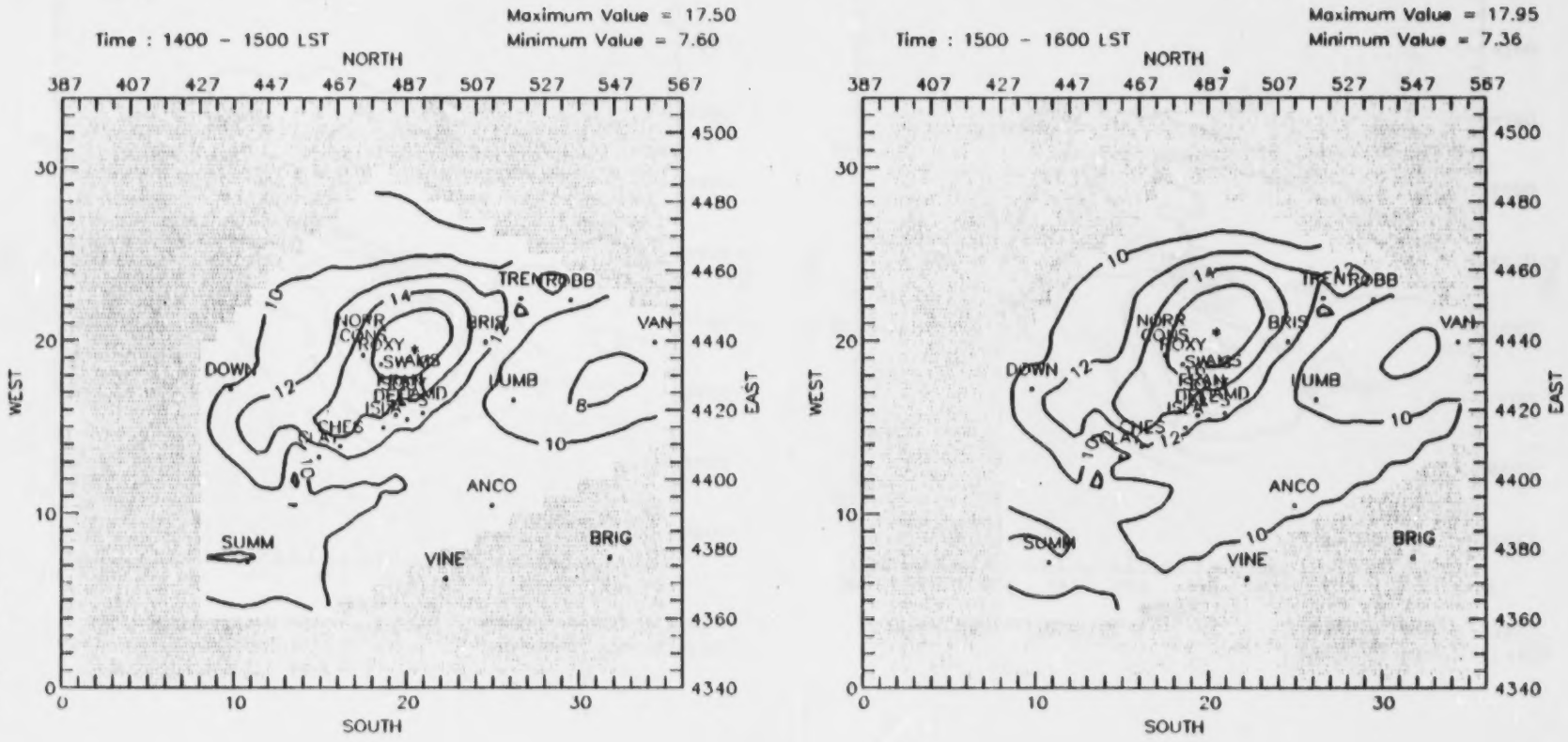
Predicted ozone concentrations (pphm) for Philadelphia 1995 m100 scenario on 13 July, 1979.



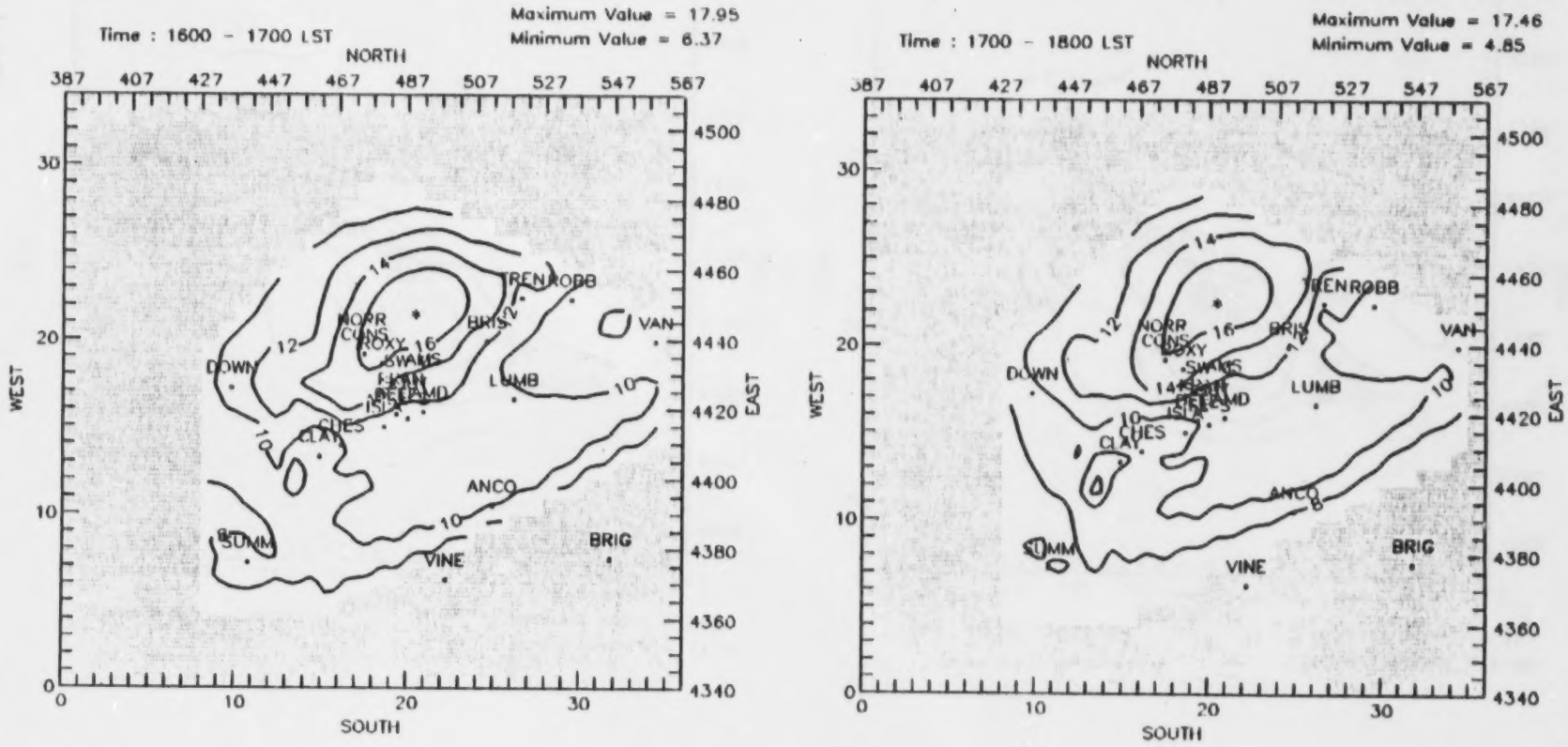
Predicted ozone concentrations (pphm) for Philadelphia 1995 m100 scenario on 13 July, 1979.



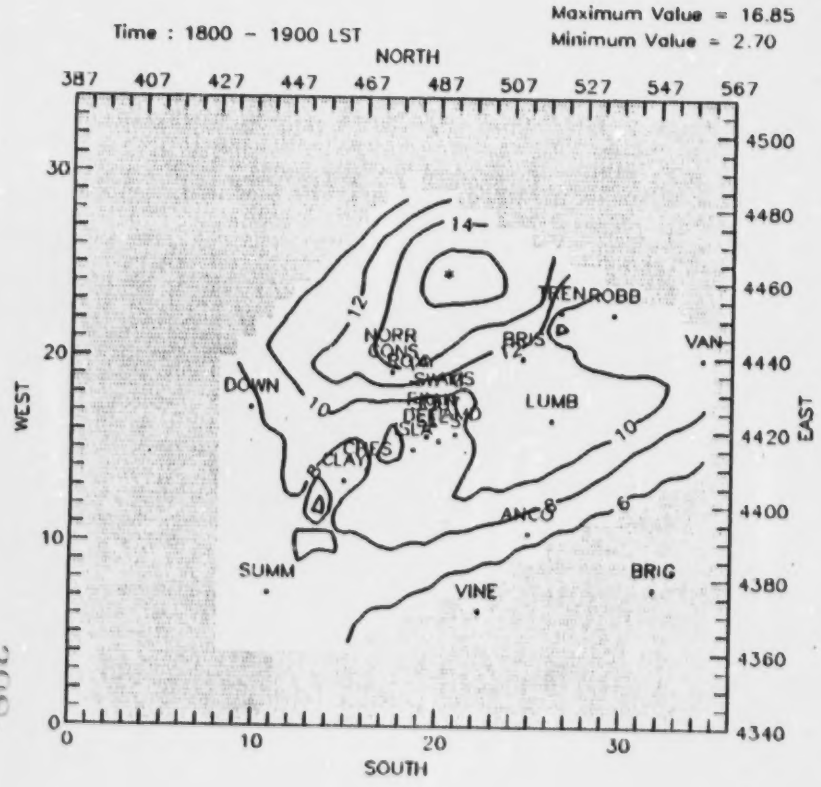
Predicted ozone concentrations (pphm) for Philadelphia 1995 m100 scenario on 13 July, 1979.

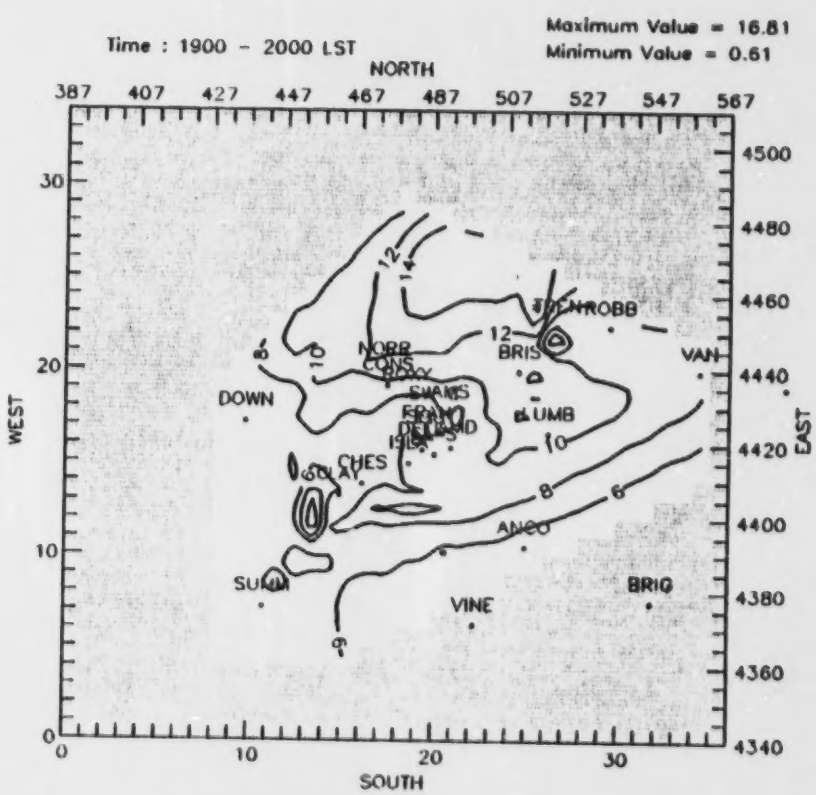


Predicted ozone concentrations (pphm) for Philadelphia 1995 cng scenario on 13 July, 1979.



Predicted ozone concentrations (pphm) for Philadelphia 1995 cng scenario on 13 July, 1979.

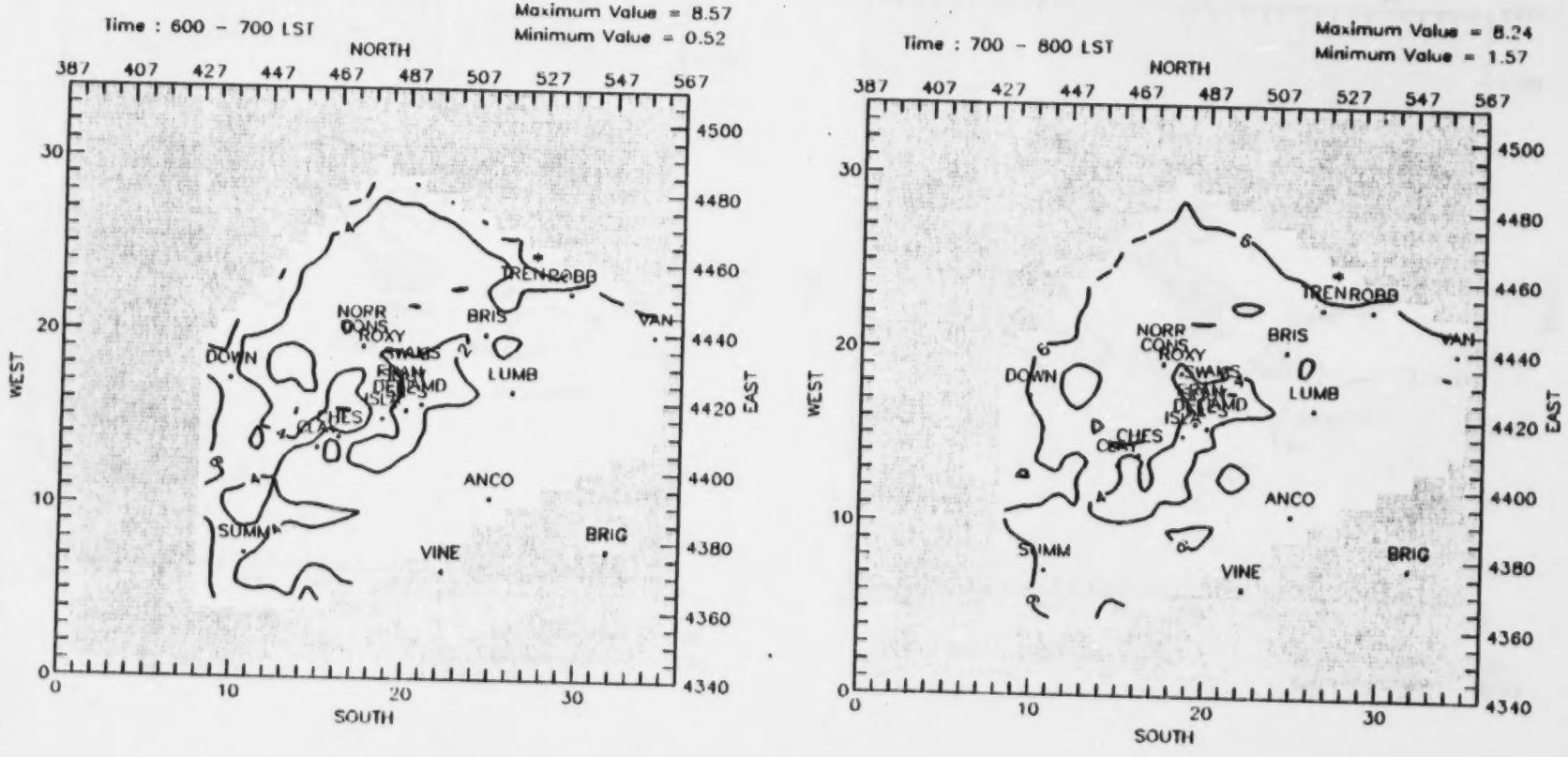




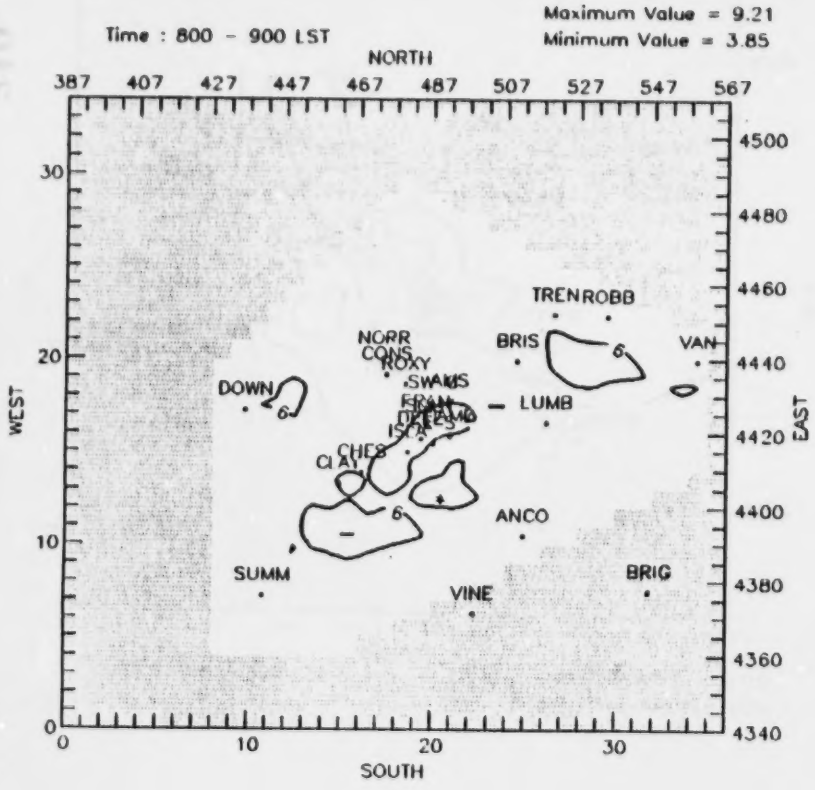
Predicted ozone concentrations (pphm) for Philadelphia 1995 cng scenario on 13 July, 1979.

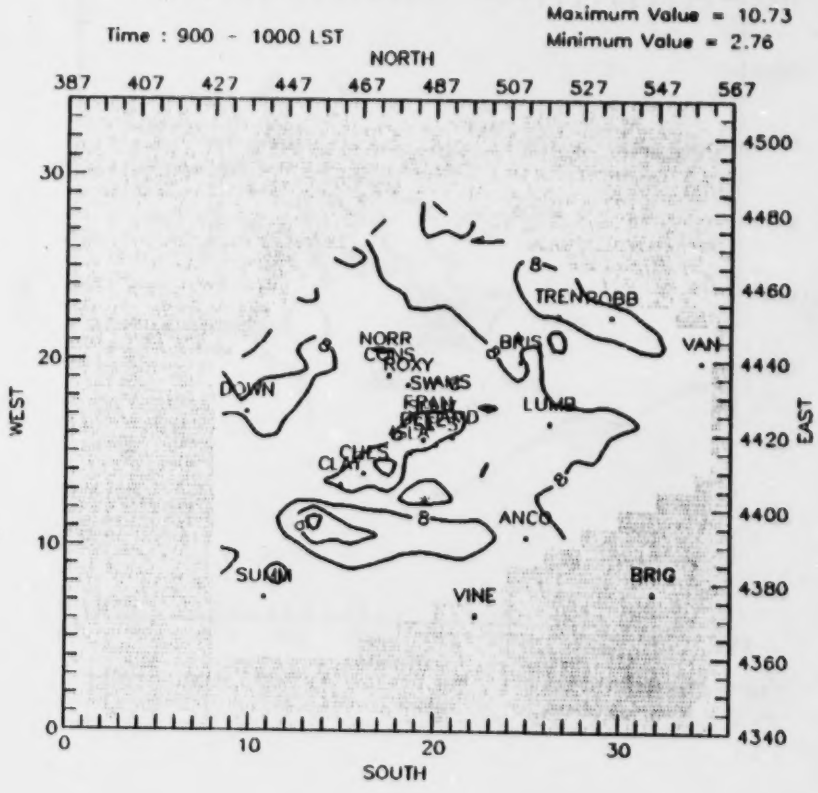
Appendix Z

PREDICTED HOURLY OZONE CONCENTRATIONS (pphm) FOR PHILADELPHIA 1995 100 PERCENT COMPRESSED NATURAL GAS (CNG) VEHICLE EMISSION SCENARIOS

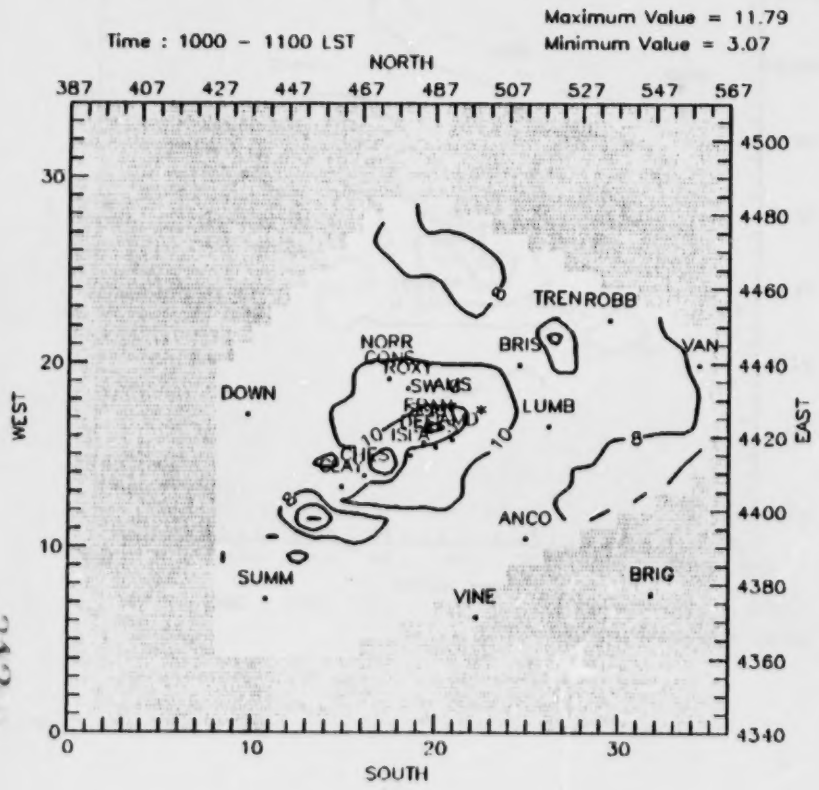


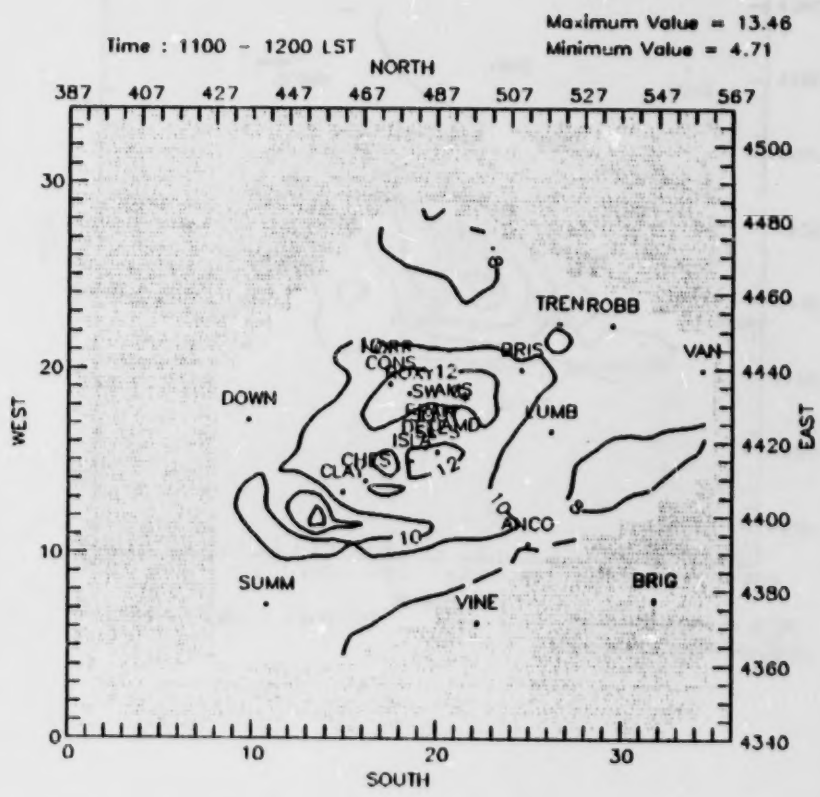
Predicted ozone concentrations (pphm) for Philadelphia 1995 cng scenario on 13 July, 1979.



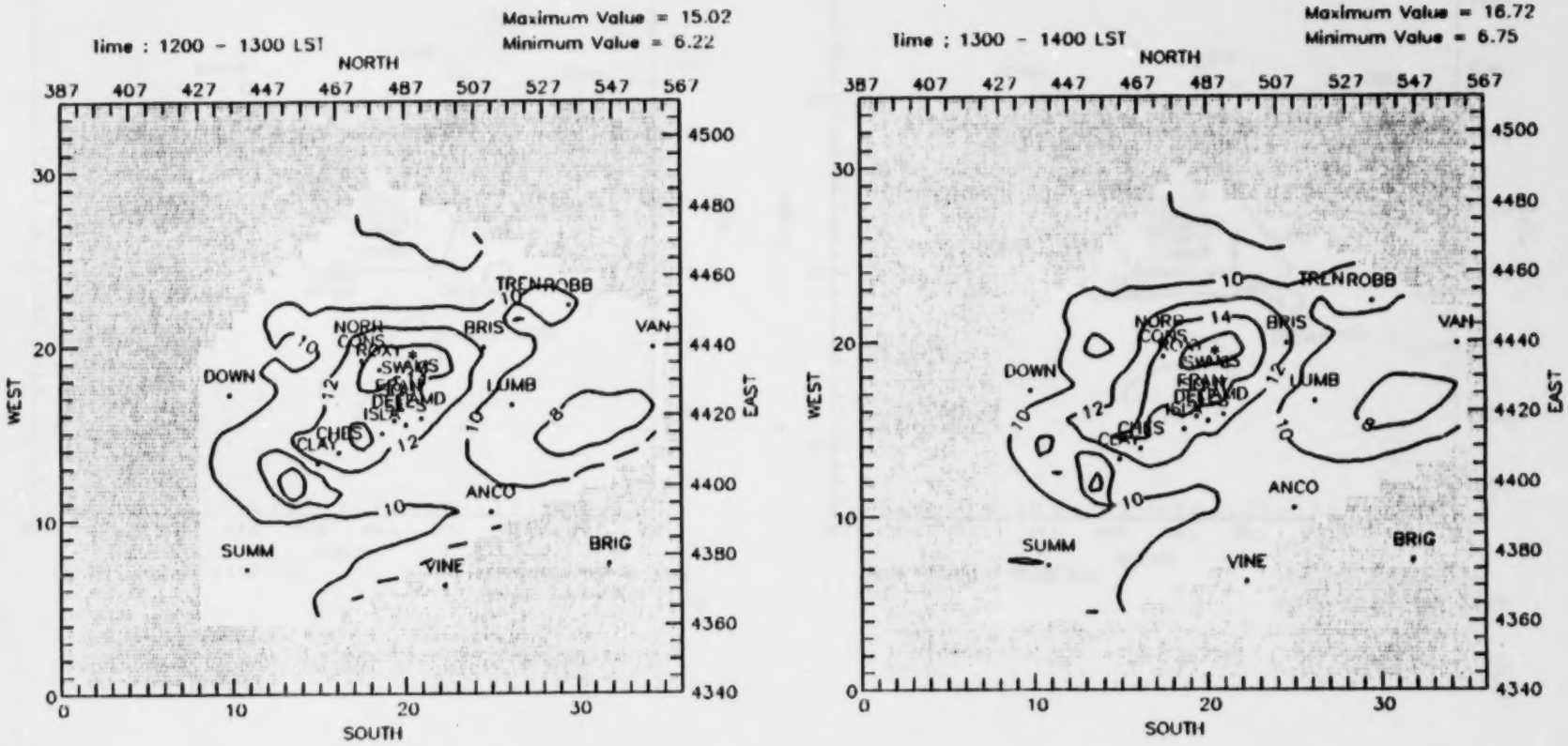


Predicted ozone concentrations (pphm) for Philadelphia 1995 cng scenario on 13 July, 1979.

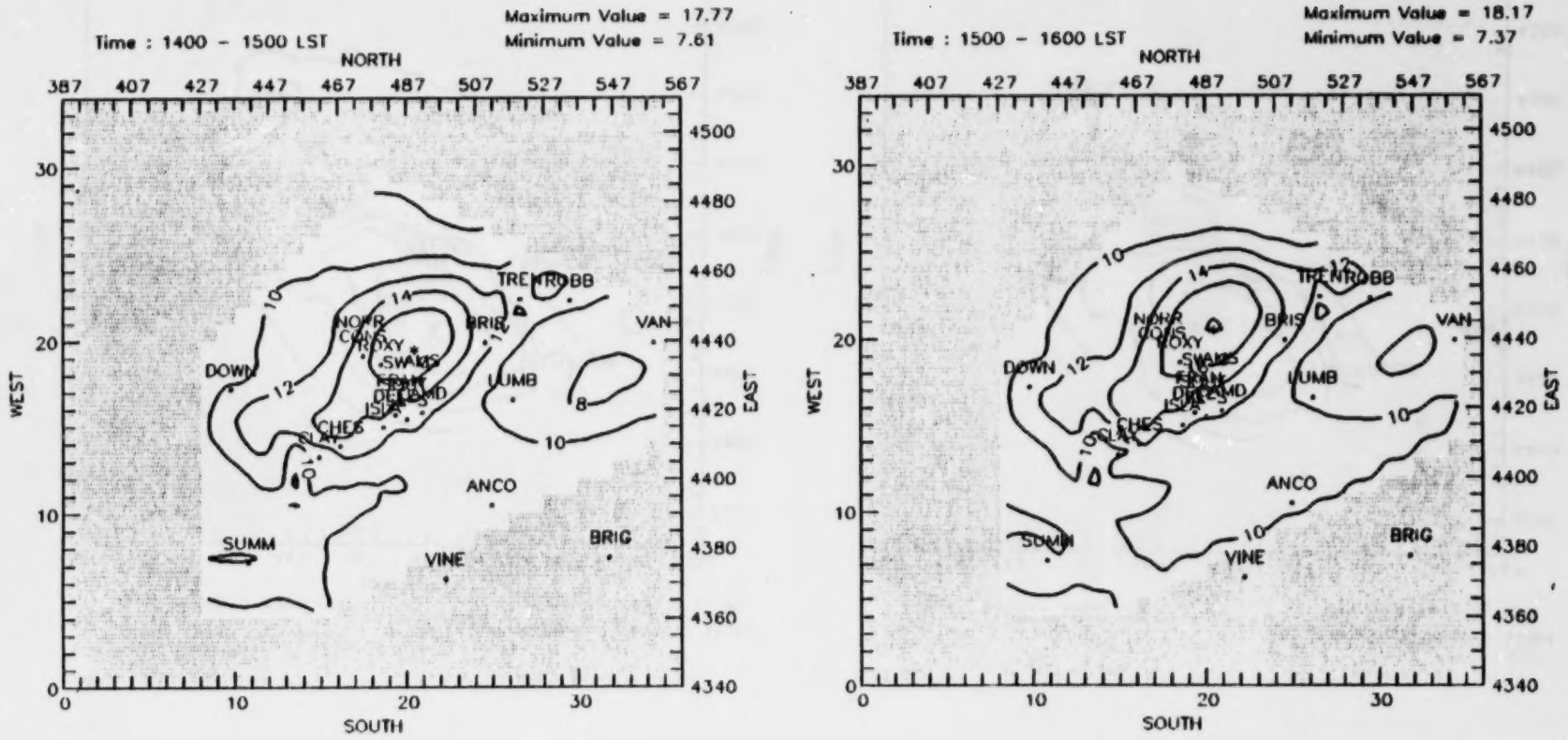




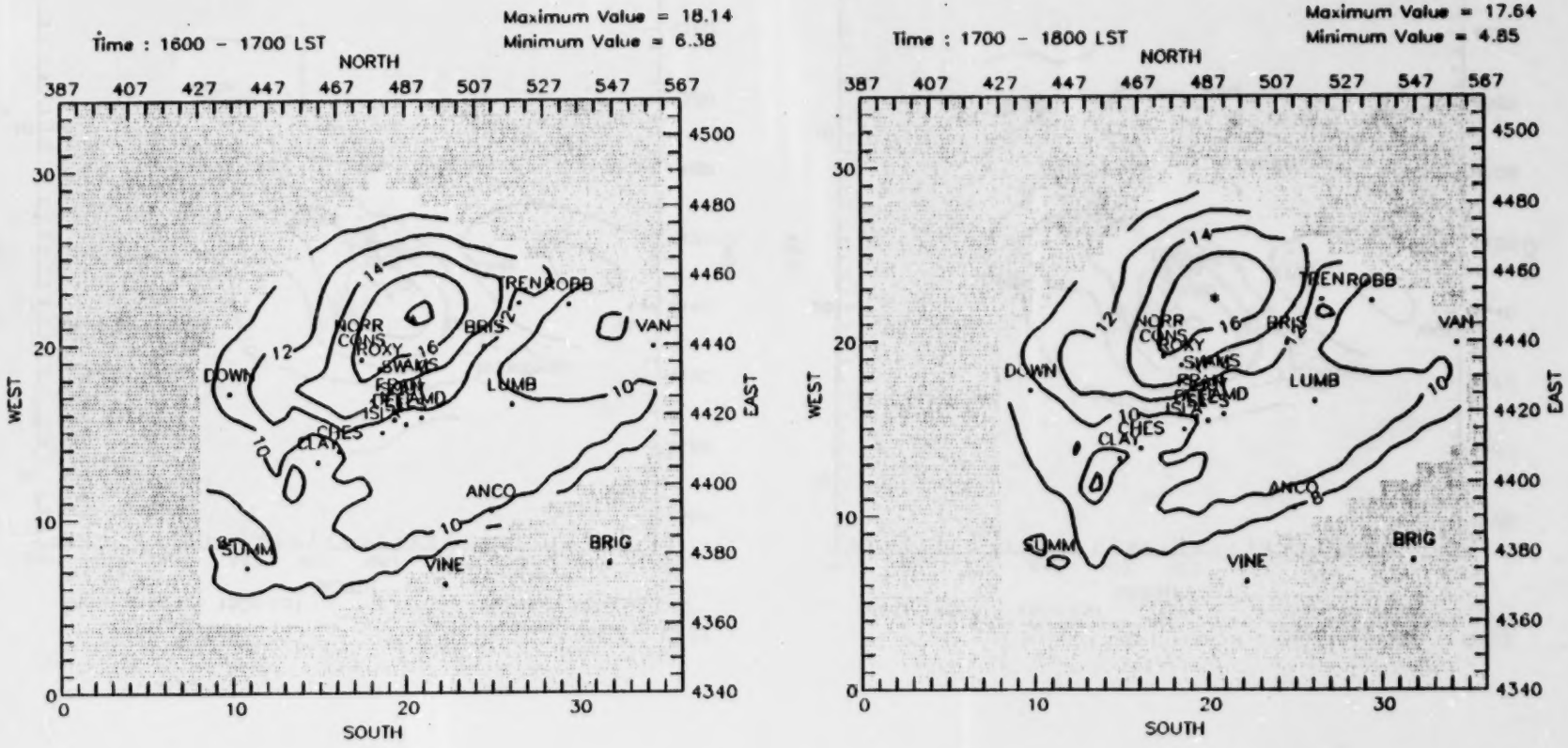
Predicted ozone concentrations (pphm) for Philadelphia 1995 cng scenario on 13 July, 1979.



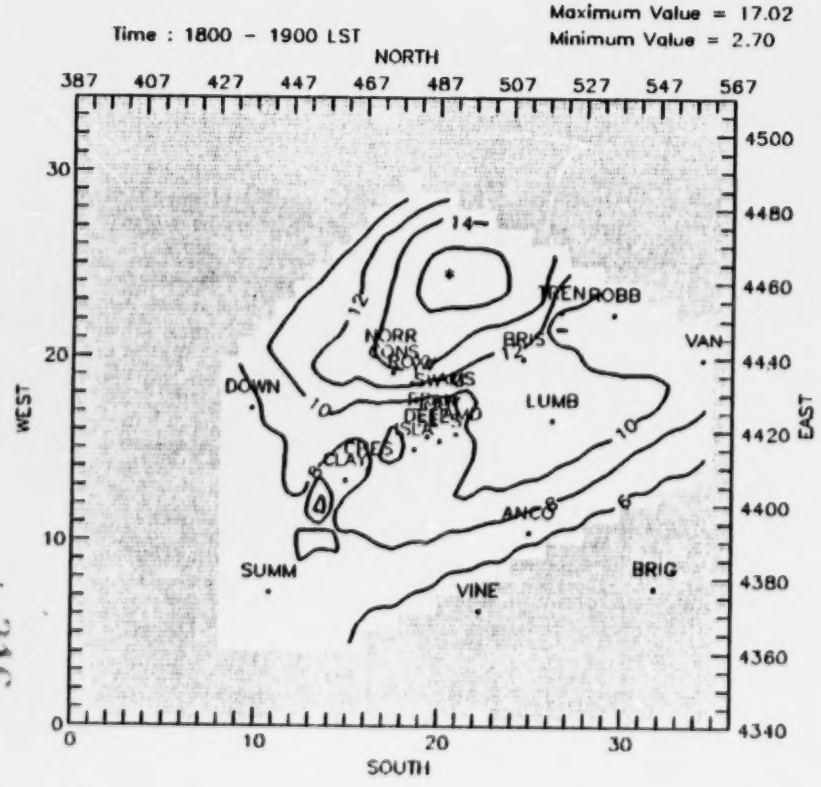
Predicted ozone concentrations (pphm) for Philadelphia 1995 cng scenario on 13 July, 1979.

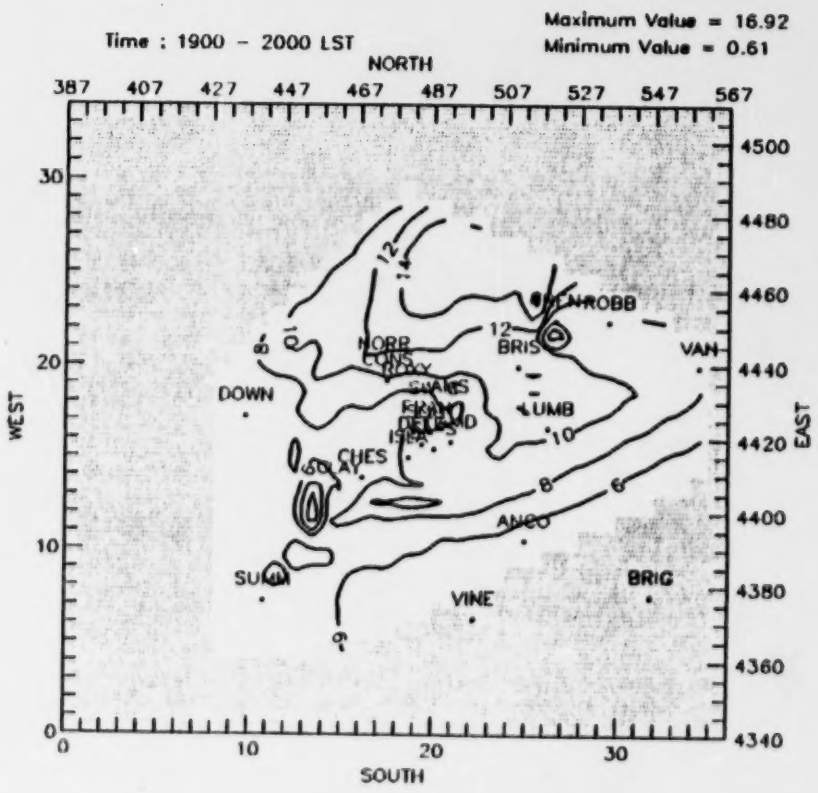


Predicted ozone concentrations (pphm) for Philadelphia 1995 m100 scenario on 13 July, 1979.



Predicted ozone concentrations (pphm) for Philadelphia 1995 m100 scenario on 13 July, 1979.

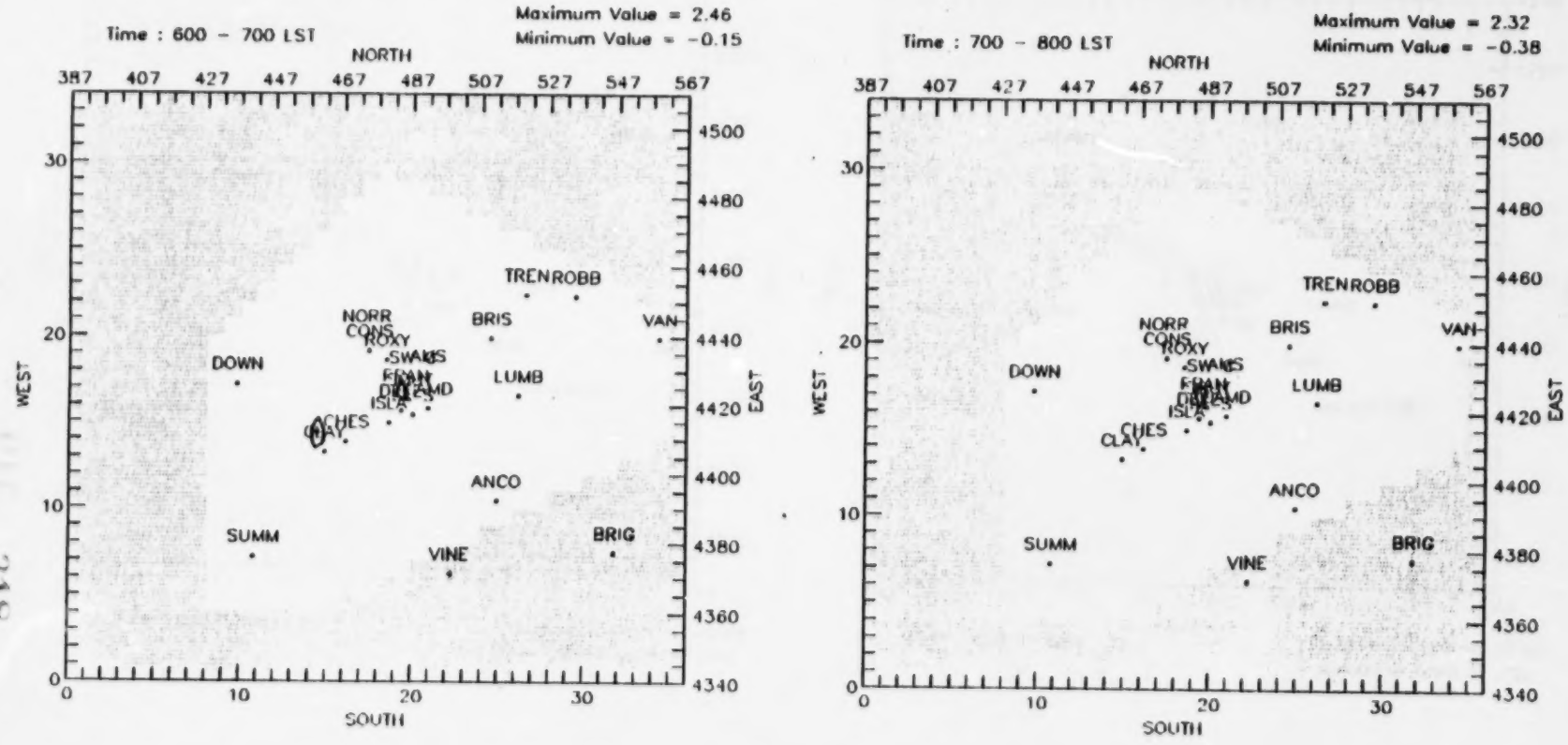




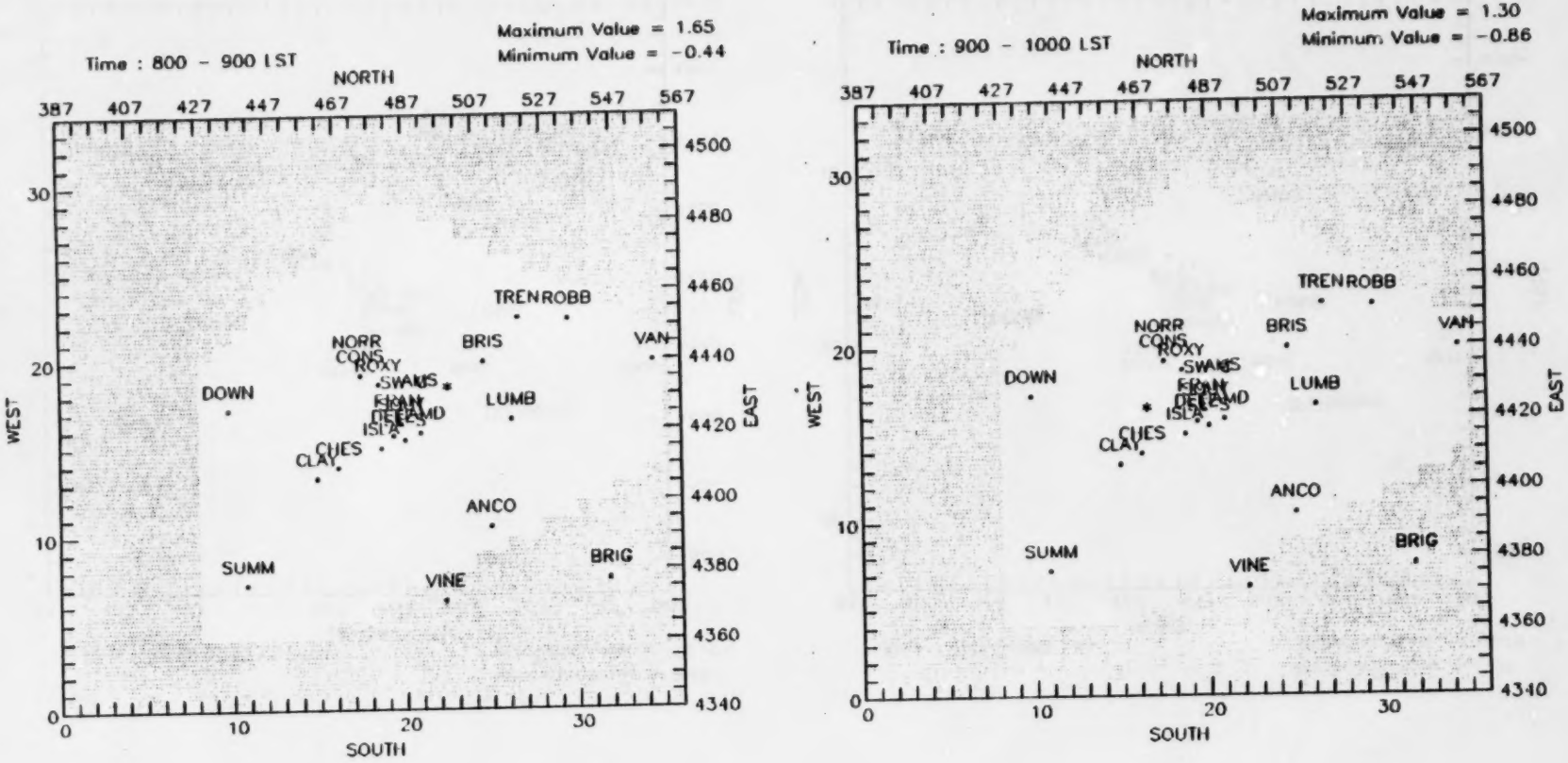
Predicted ozone concentrations (pphm) for Philadelphia 1995 m100 scenario on 13 July, 1979.

Appendix AA

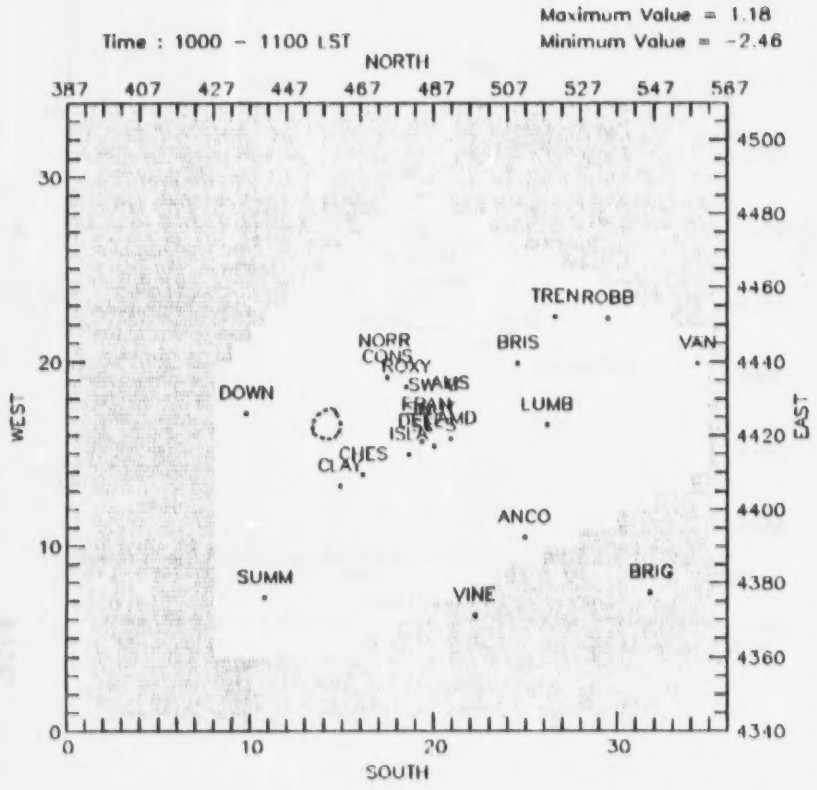
DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb)
BETWEEN PHILADELPHIA 1995 NEW REGULATION
GAS VEHICLE AND BASE CASE EMISSION SCENARIOS
(NEW REGULATION GAS MINUS BASE CASE)

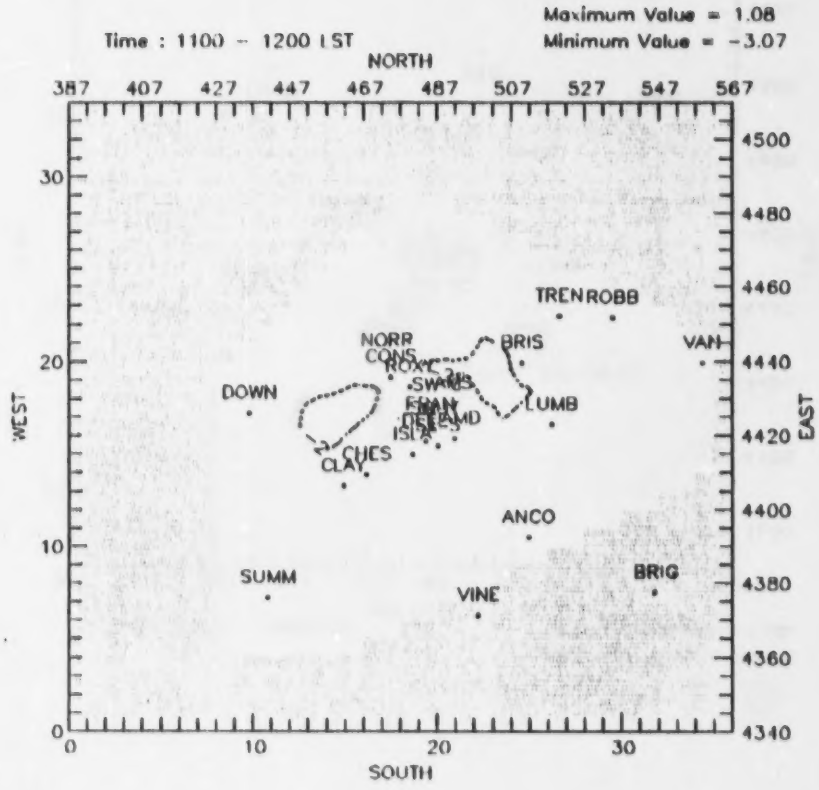


Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 new reg gas and 1995 base case on 13 July, 1979.

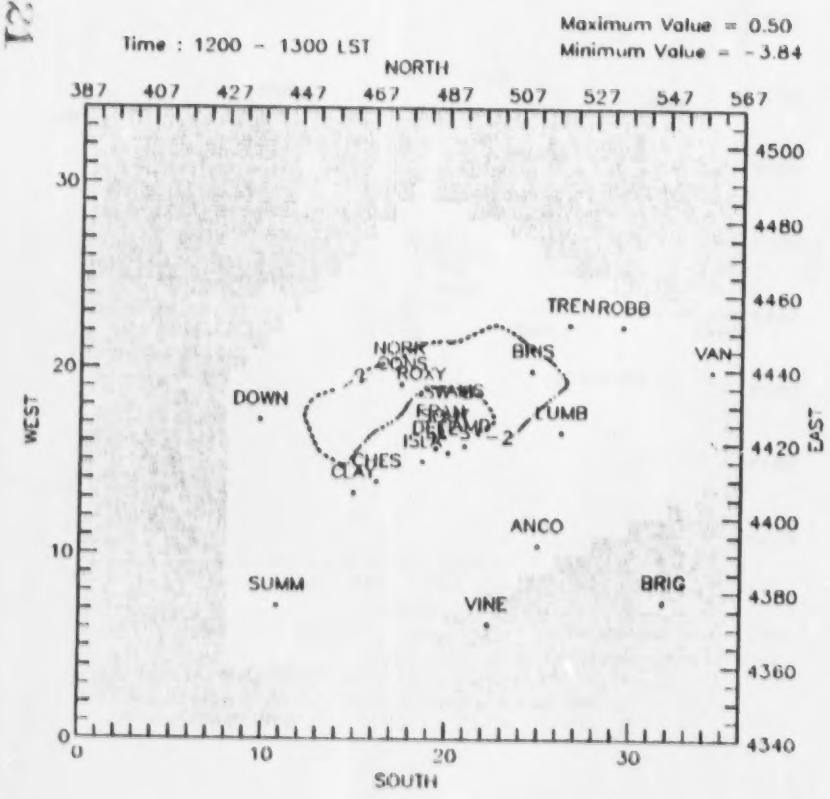


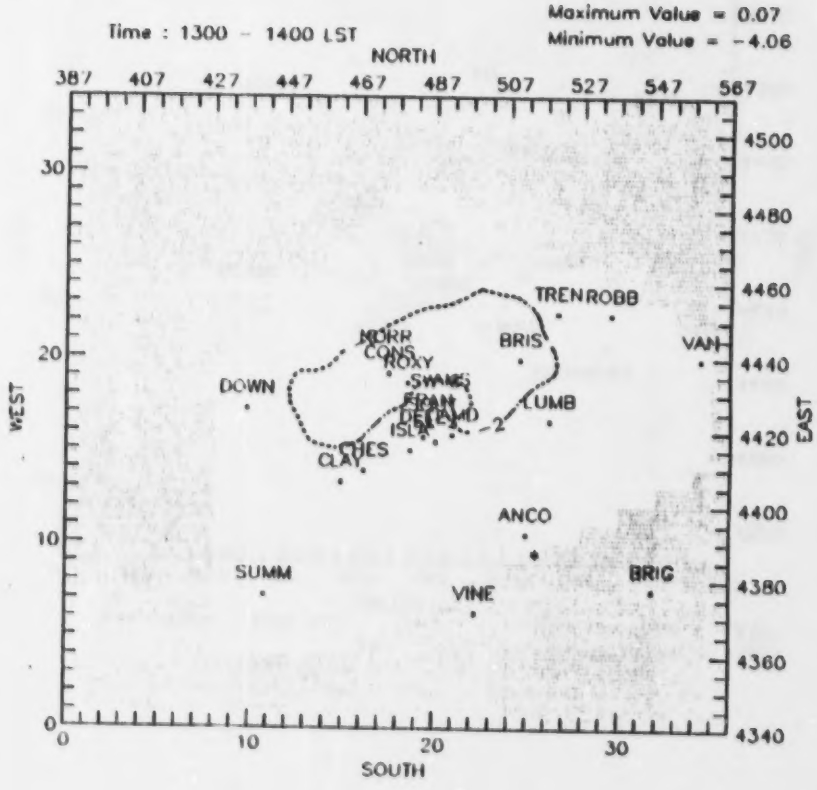
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 new reg gas and 1995 base case on 13 July, 1979.



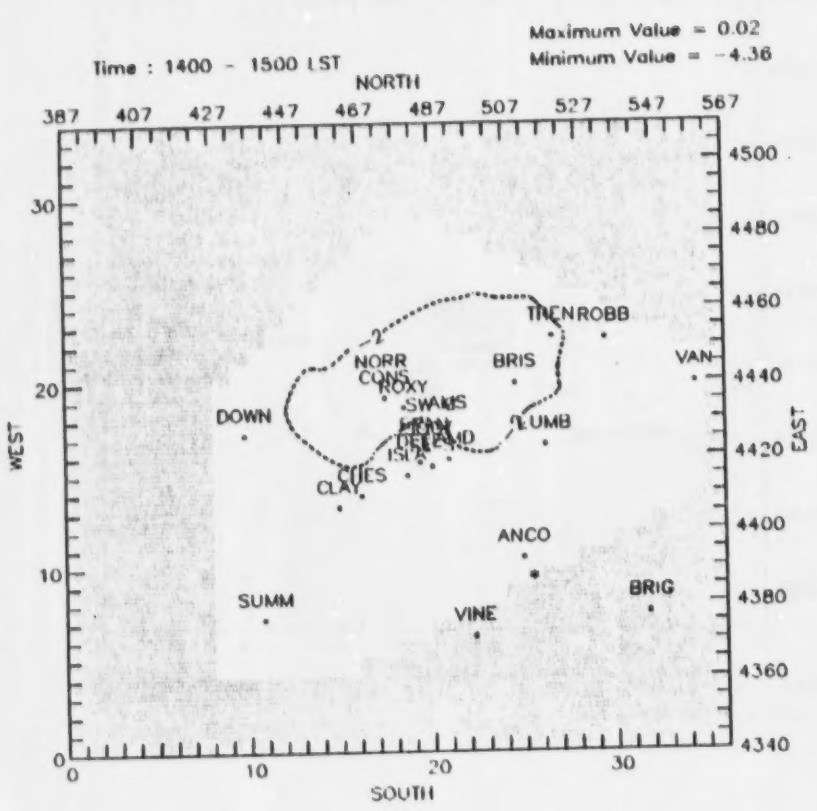


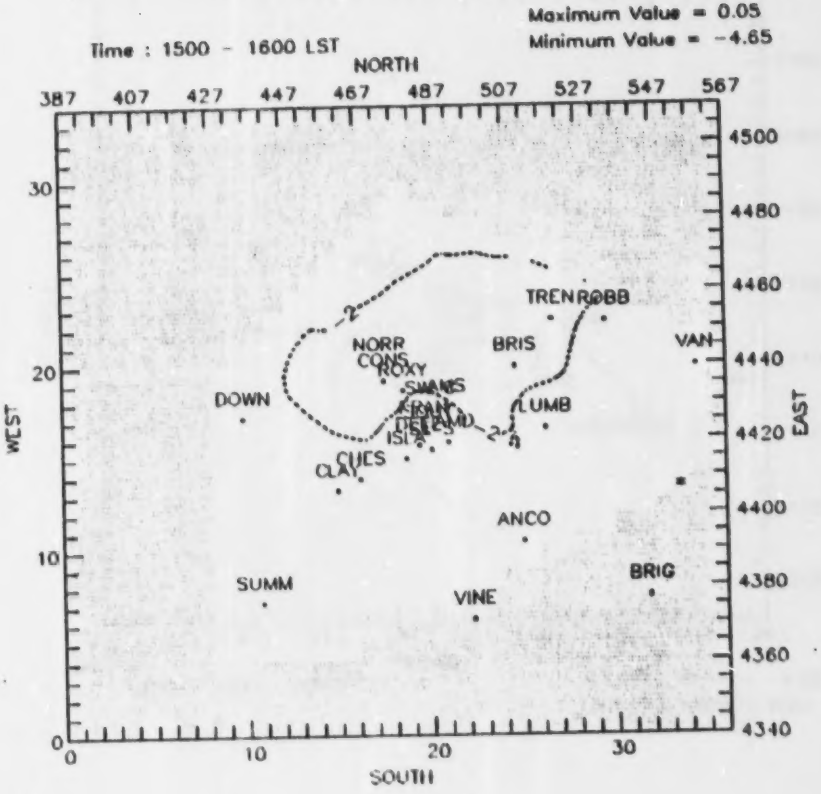
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 new reg gas and 1995 base case on 13 July, 1979.



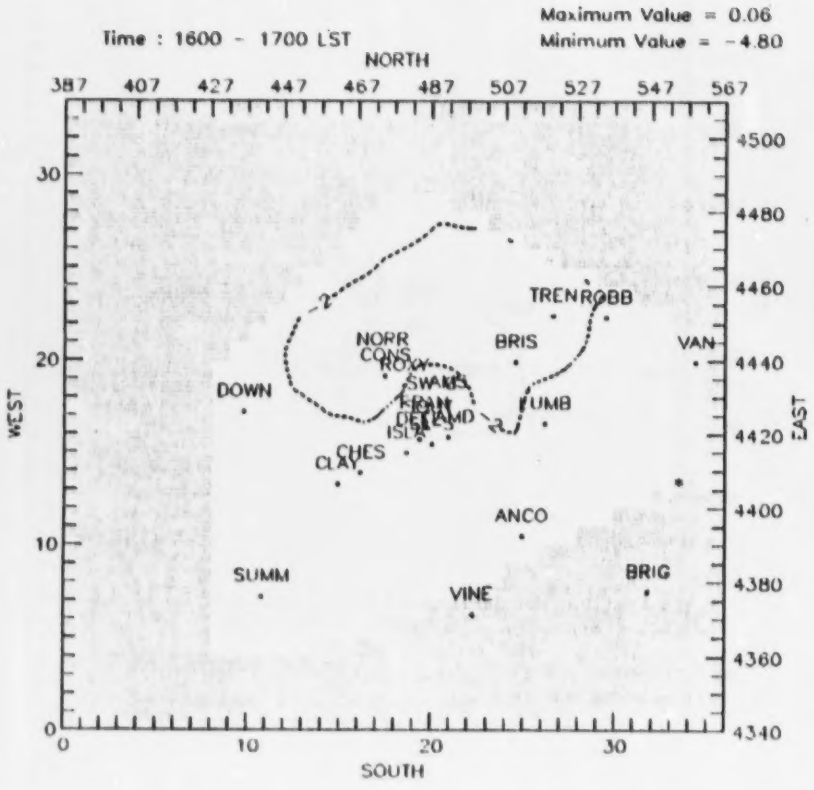


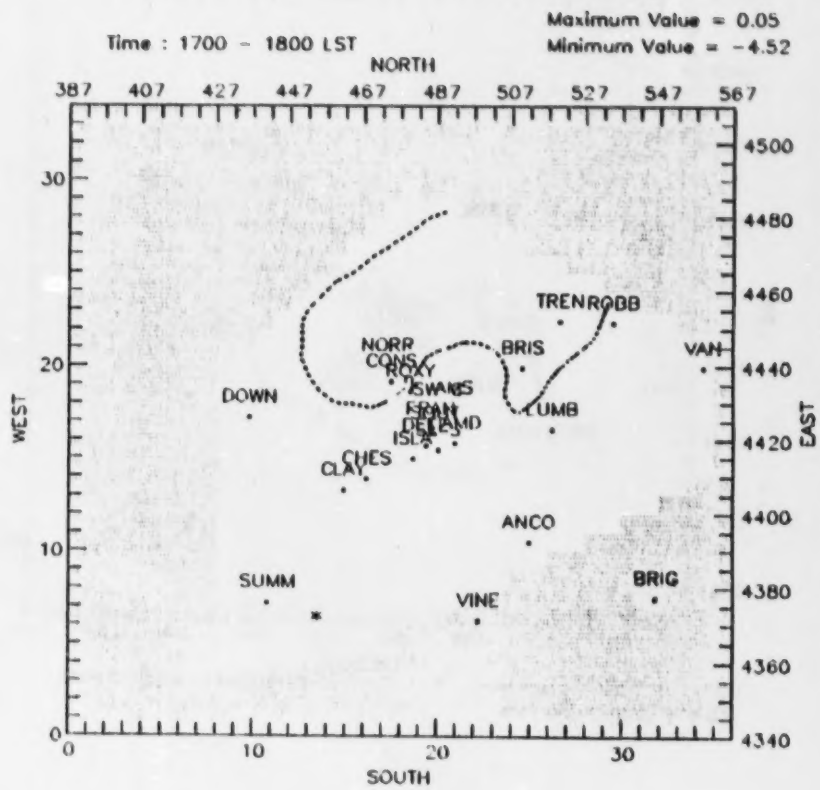
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 new reg gas and 1995 base case on 13 July, 1979.



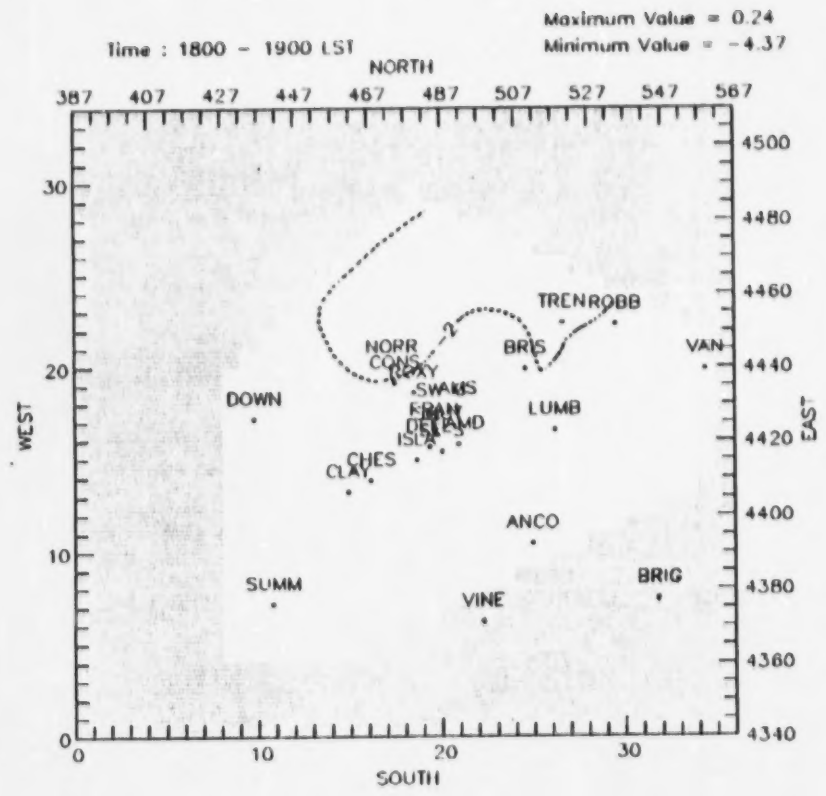


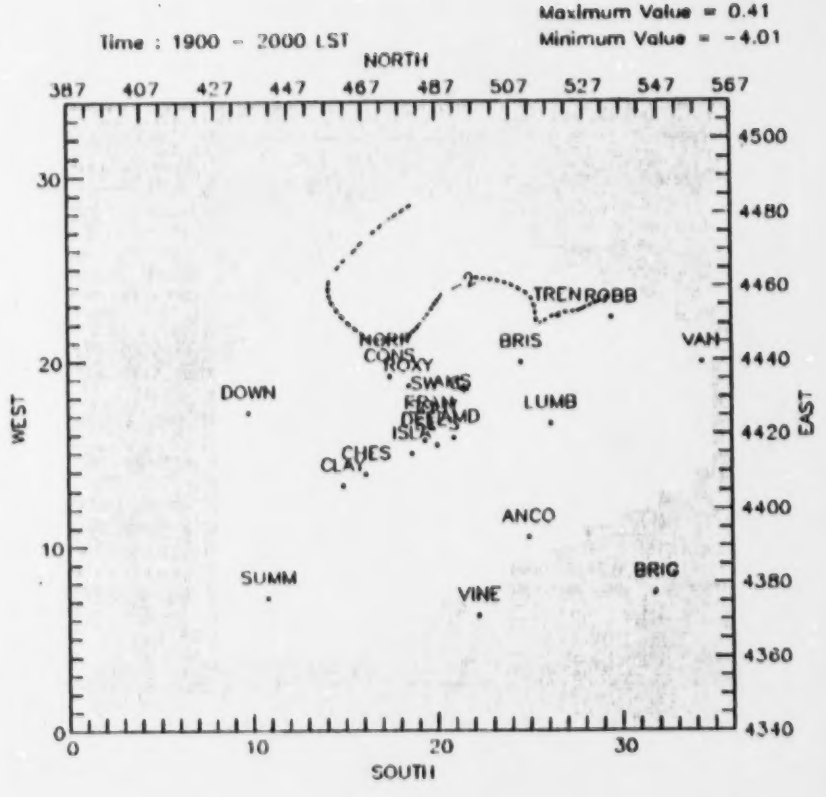
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 new reg gas and 1995 base case on 13 July, 1979.





Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 new reg gas and 1995 base case on 13 July, 1979.

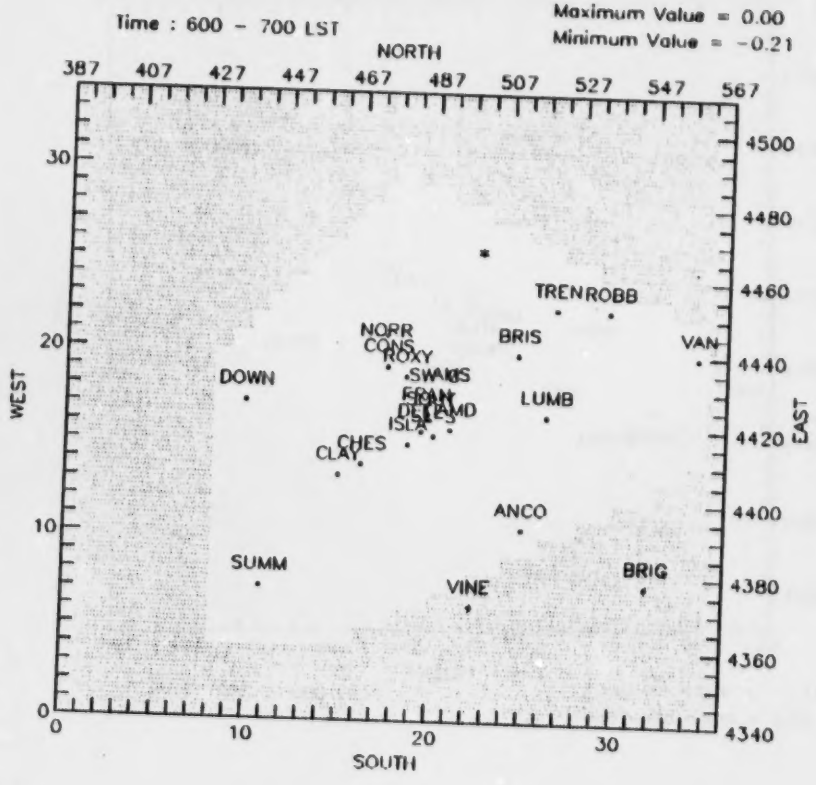


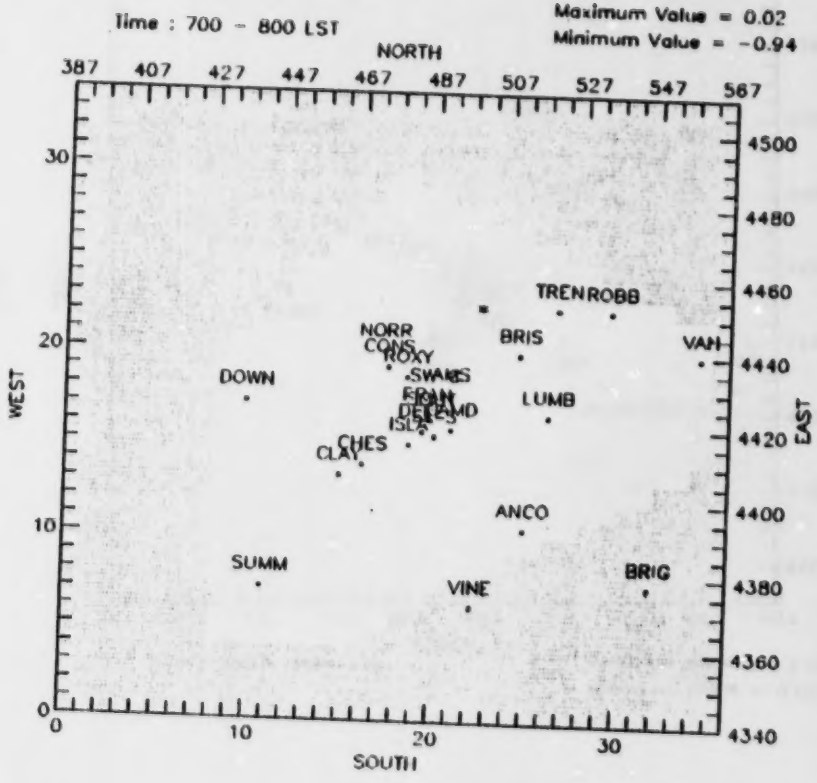


Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 new reg gas and 1995 base case on 13 July, 1979.

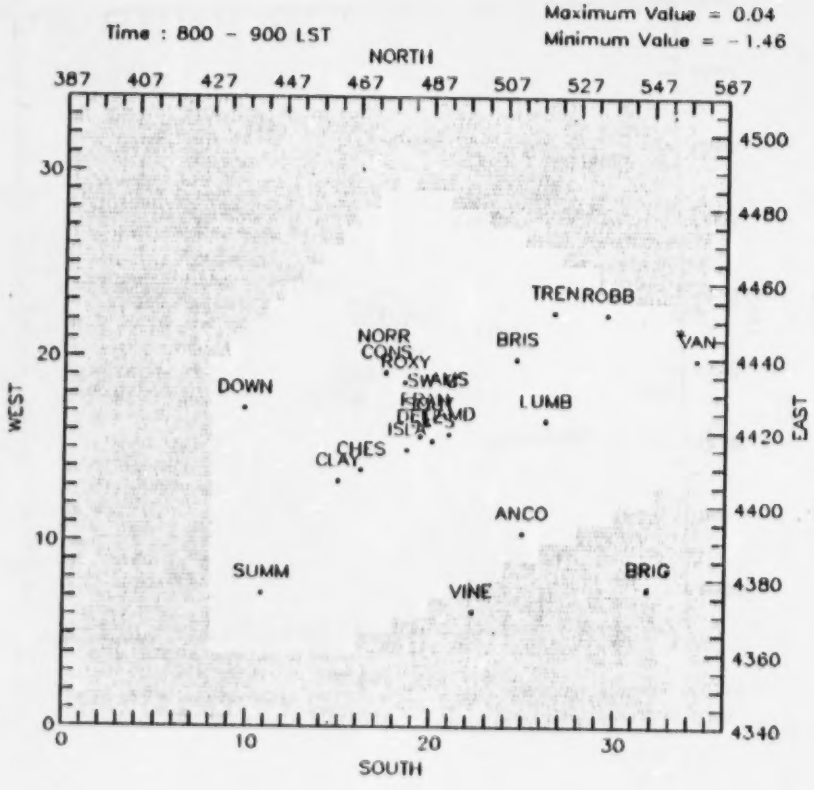
Appendix BB

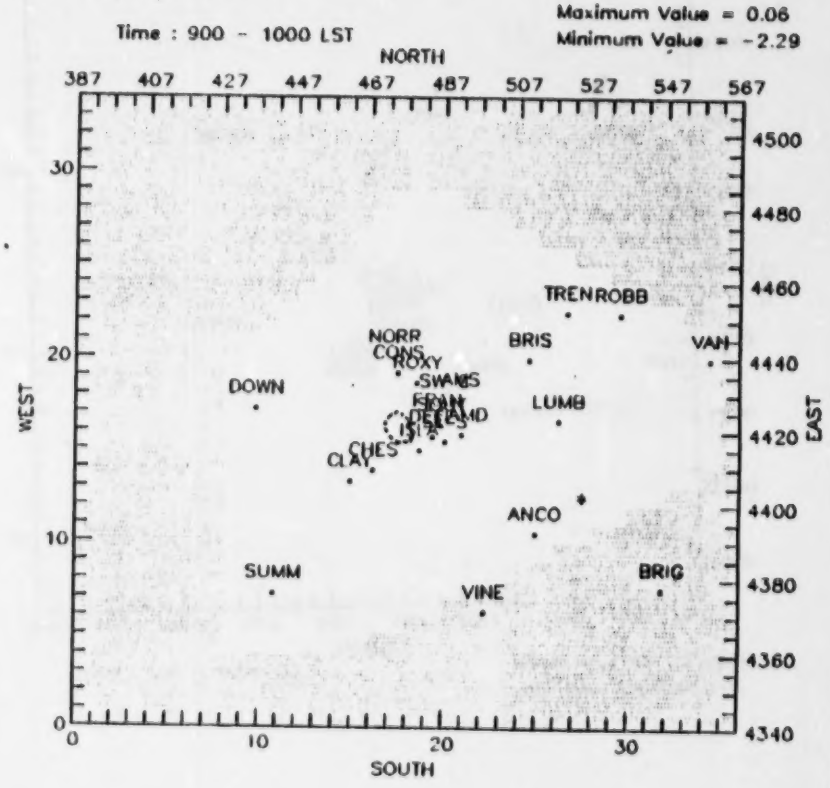
DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) BETWEEN PHILADELPHIA 1995 100 PERCENT METHANOL (M100) VEHICLE AND NEW REGULATION GAS VEHICLE EMISSION SCENARIOS (M100 MINUS NEW REGULATION GAS)



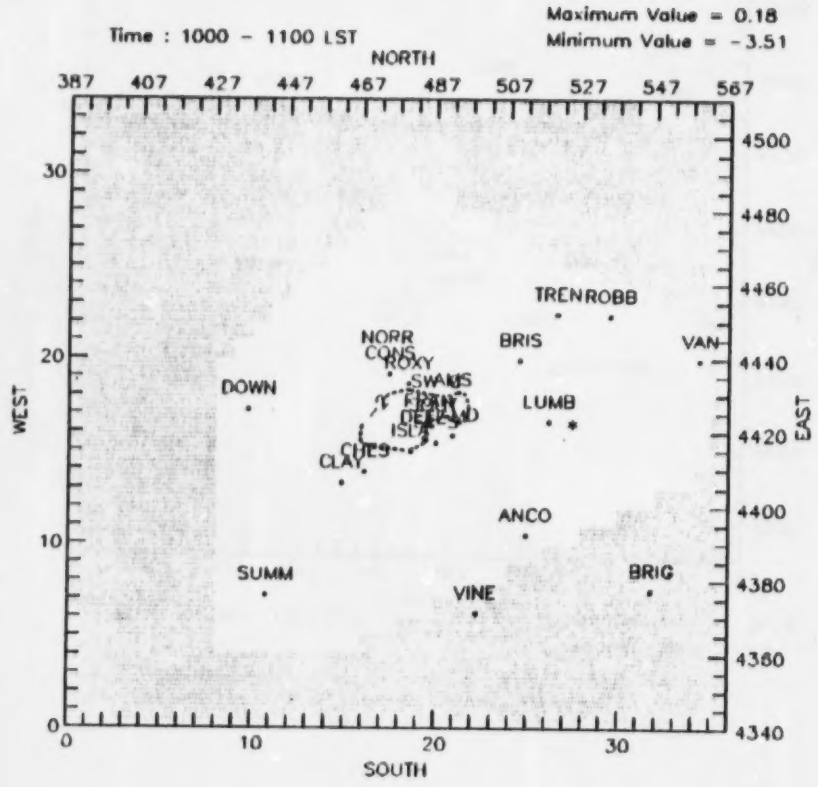


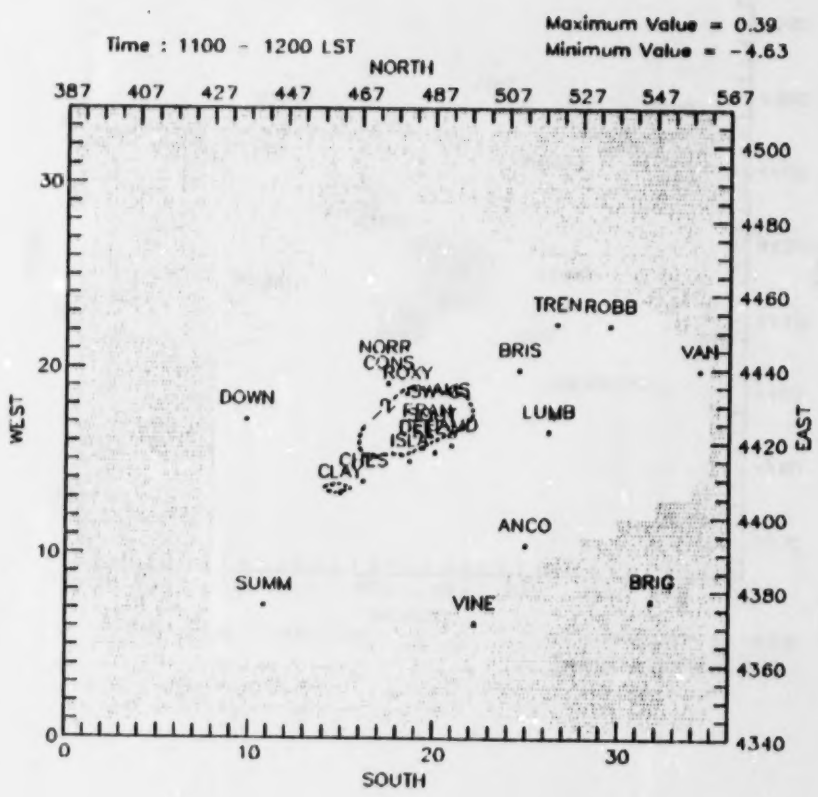
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 m100 and 1995 new reg gas on 13 July, 1979.



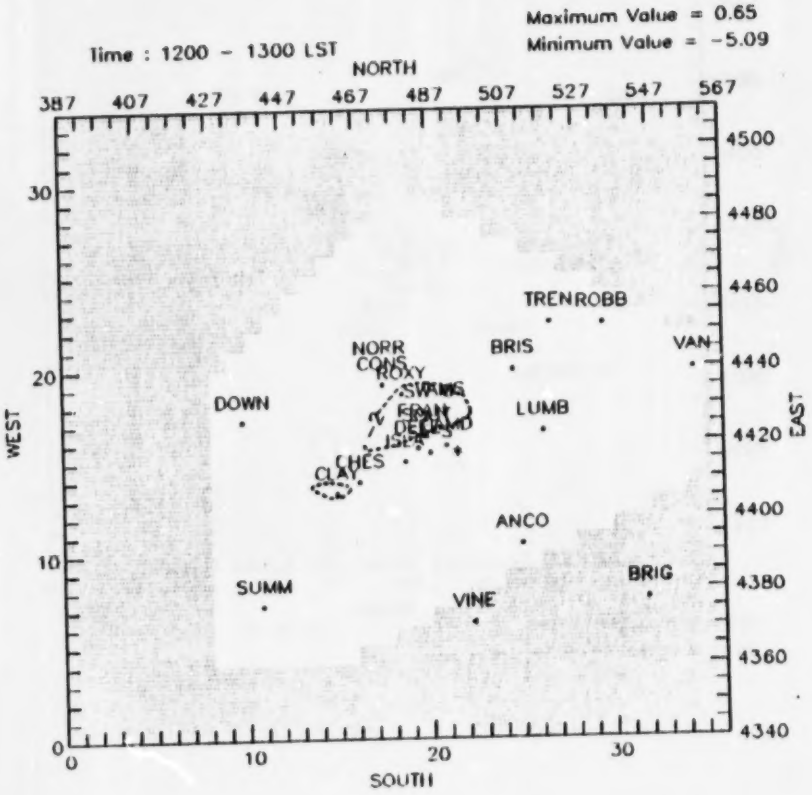


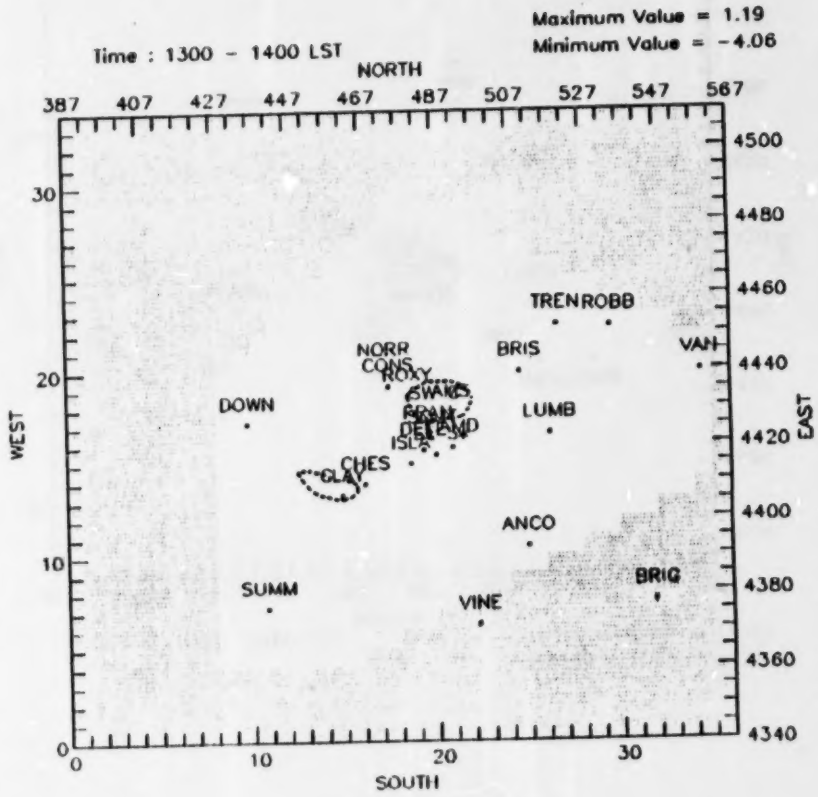
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 m100 and 1995 new reg gas on 13 July, 1979.



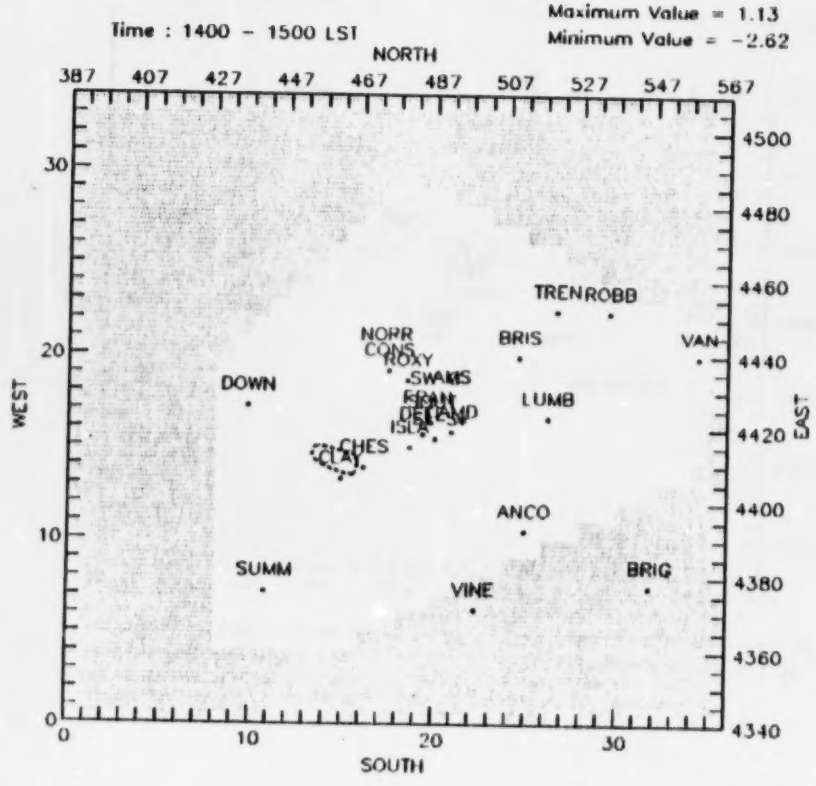


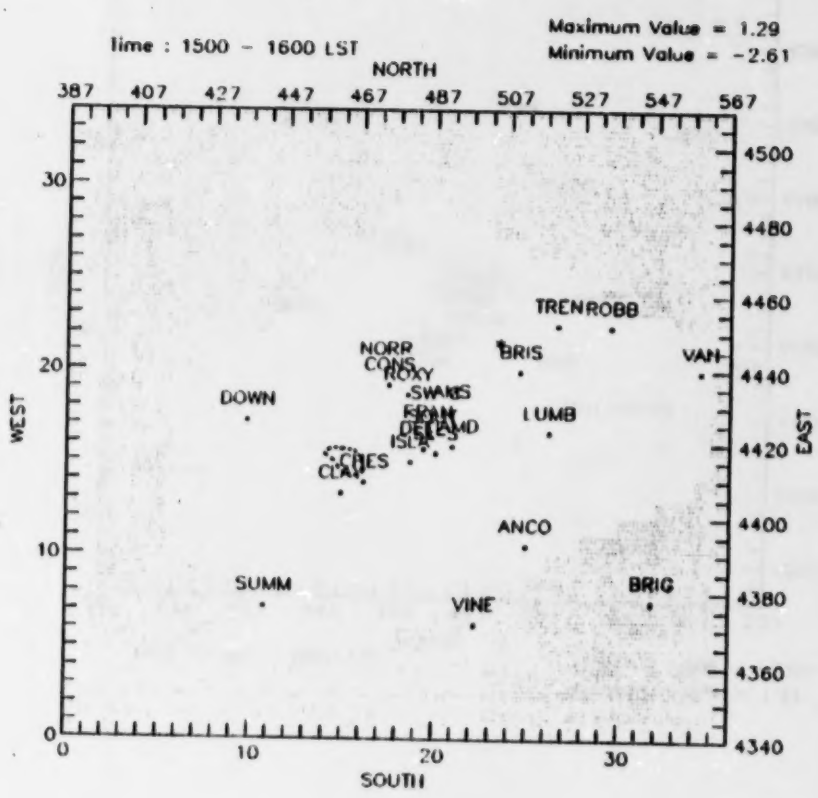
Differences in hourly ozone concentrations (ppb), for Philadelphia between 1995 m100 and 1995 new reg gas on 13 July, 1979.



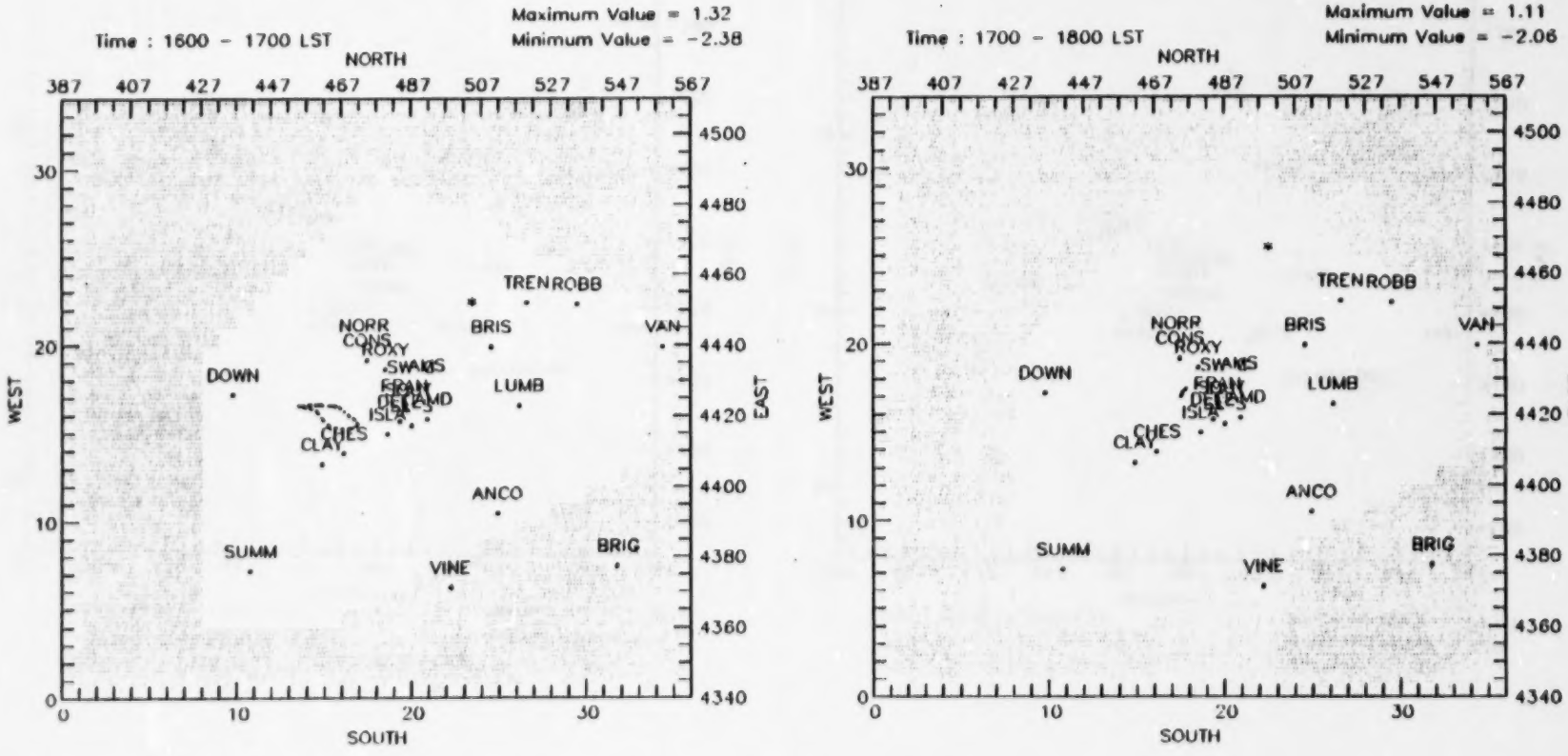


Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 m100 and 1995 new reg gas on 13 July, 1979.

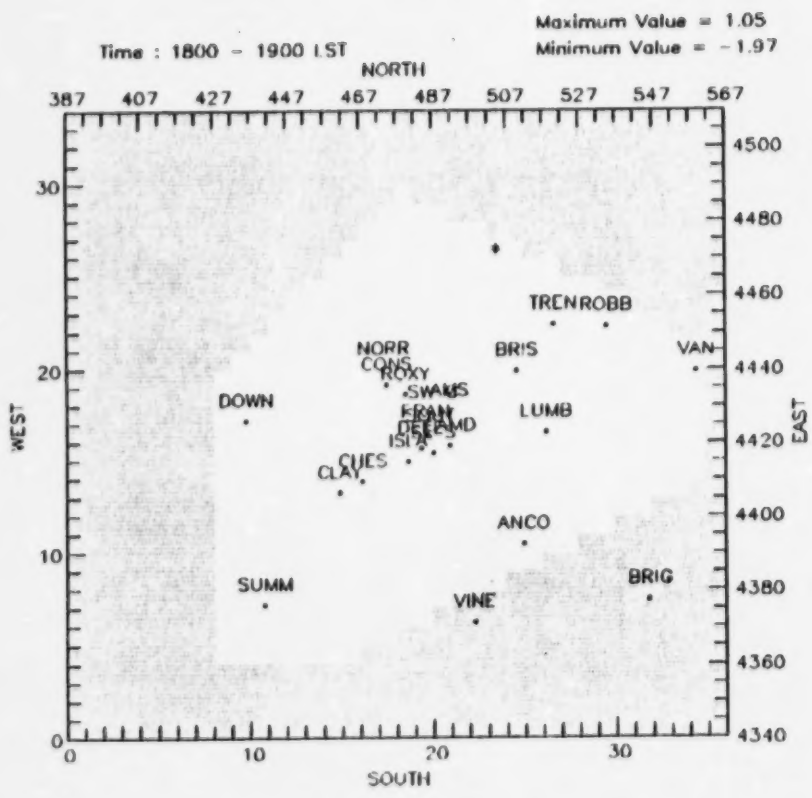


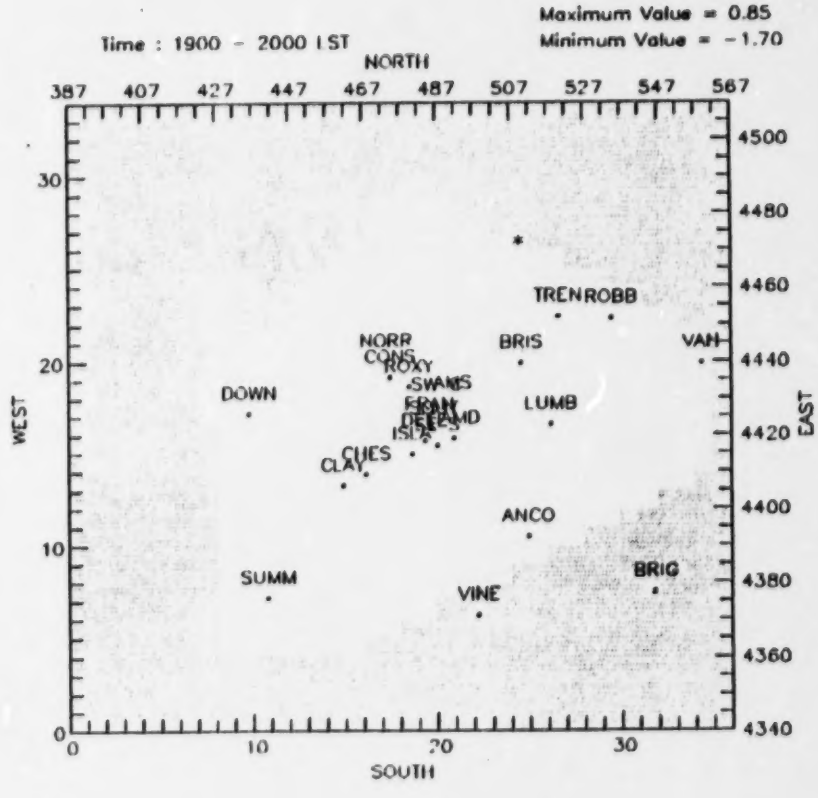


Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 m100 and 1995 new reg gas on 13 July, 1979.



Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 m100 and 1995 new reg gas on 13 July, 1979.

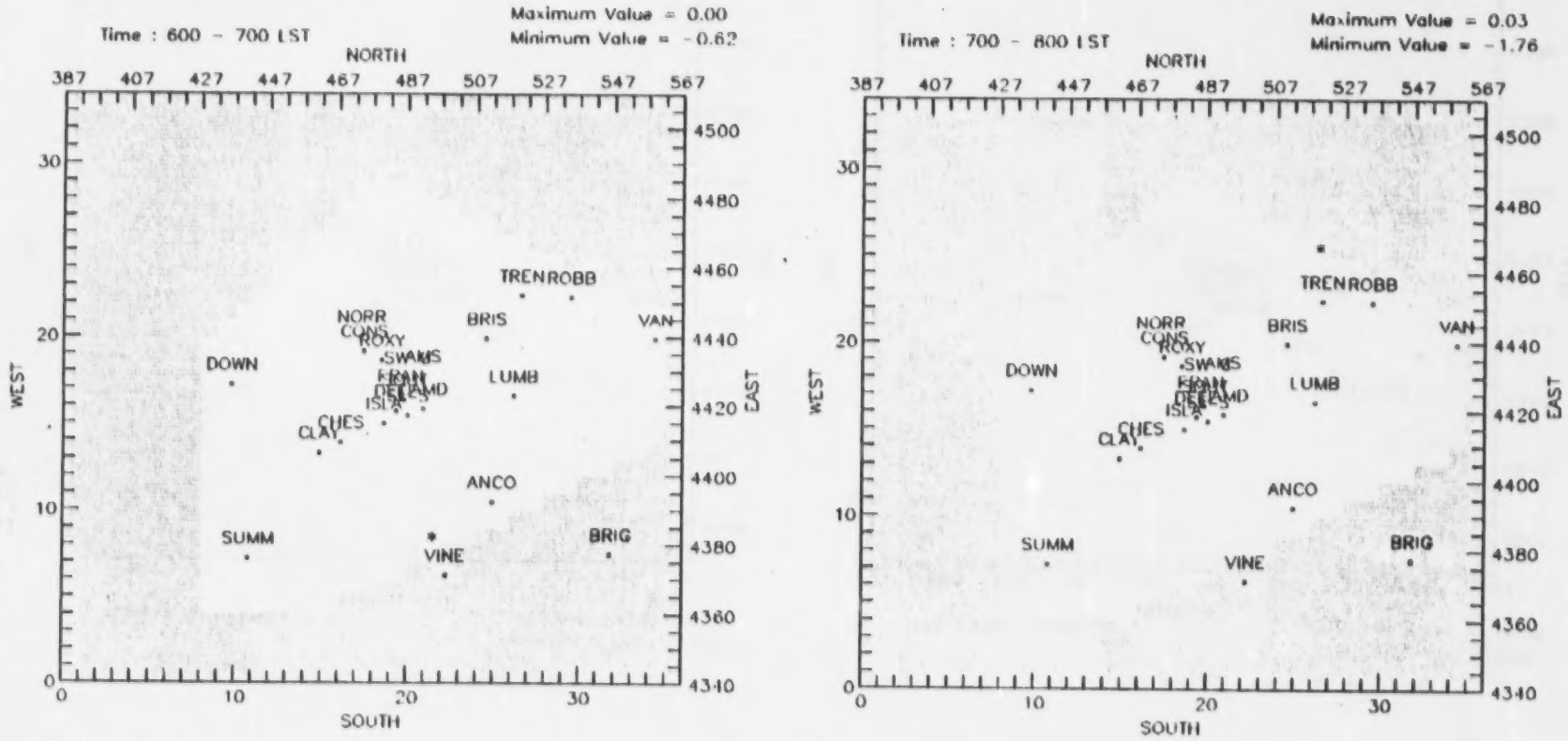




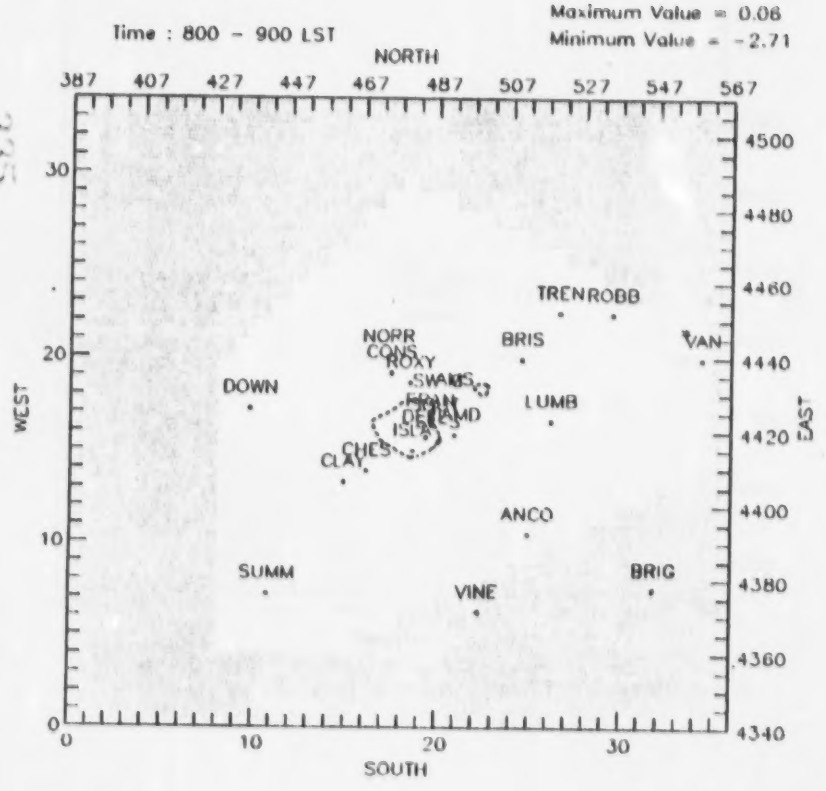
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 m100 and 1995 new reg gas on 13 July, 1979.

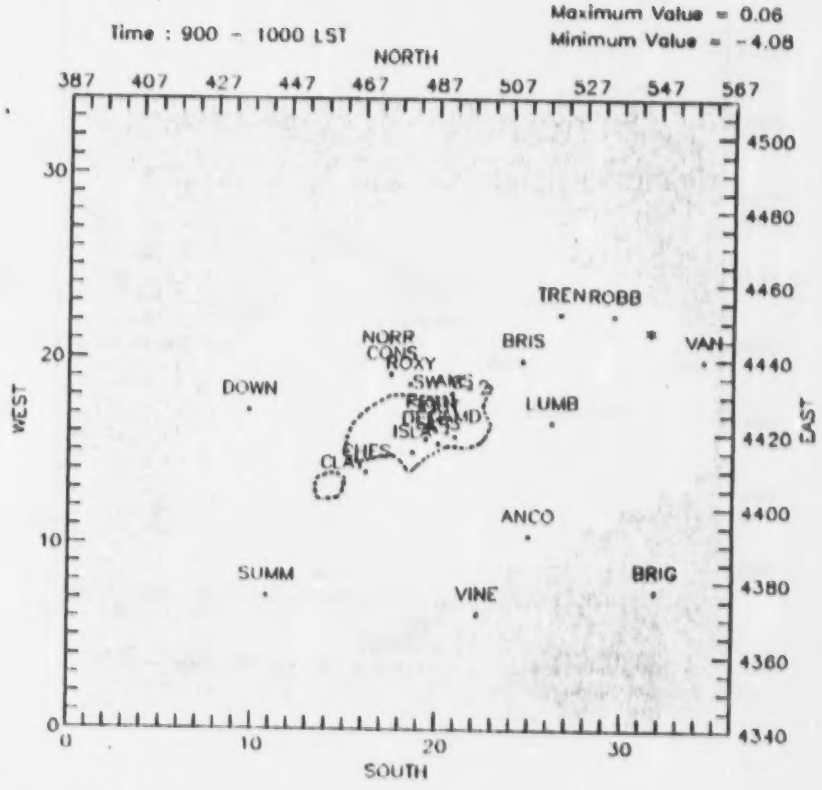
Appendix CC

DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) BETWEEN PHILADELPHIA 1995 100 PERCENT COMPRESSED NATURAL GAS (CNG) VEHICLE AND NEW REGULATION GAS VEHICLES EMISSION SCENARIOS (CNG MINUS NEW REGULATION GAS)

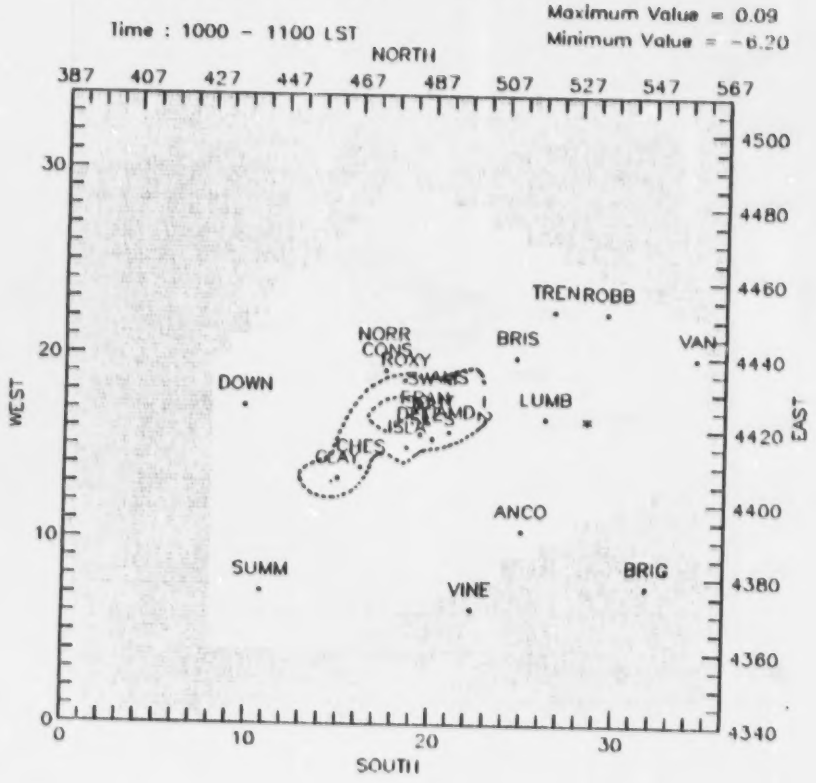


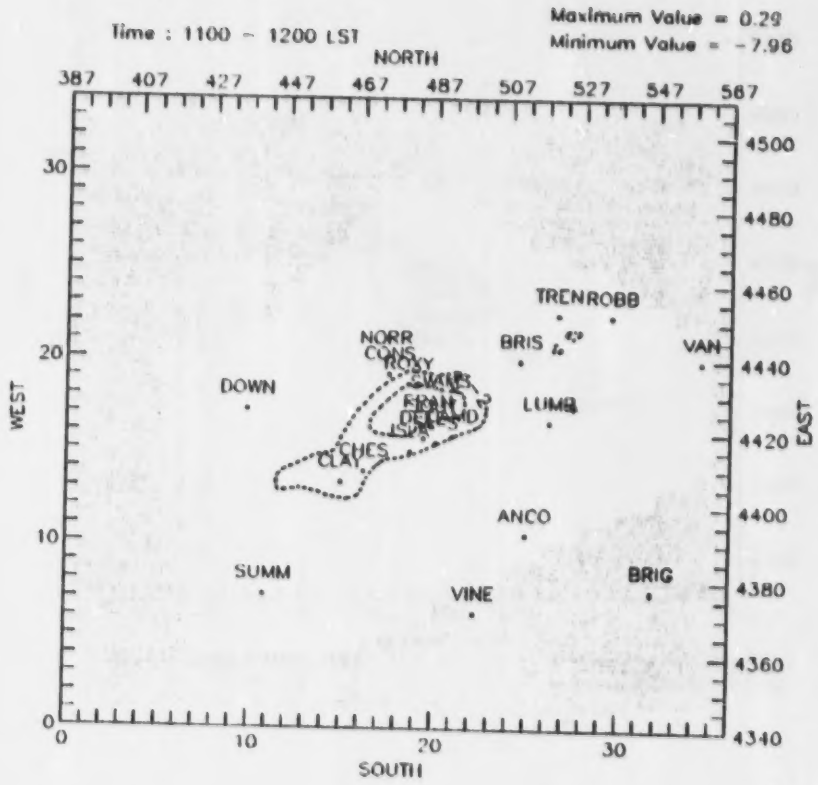
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 cng and 1995 new reg gas on 13 July, 1979.



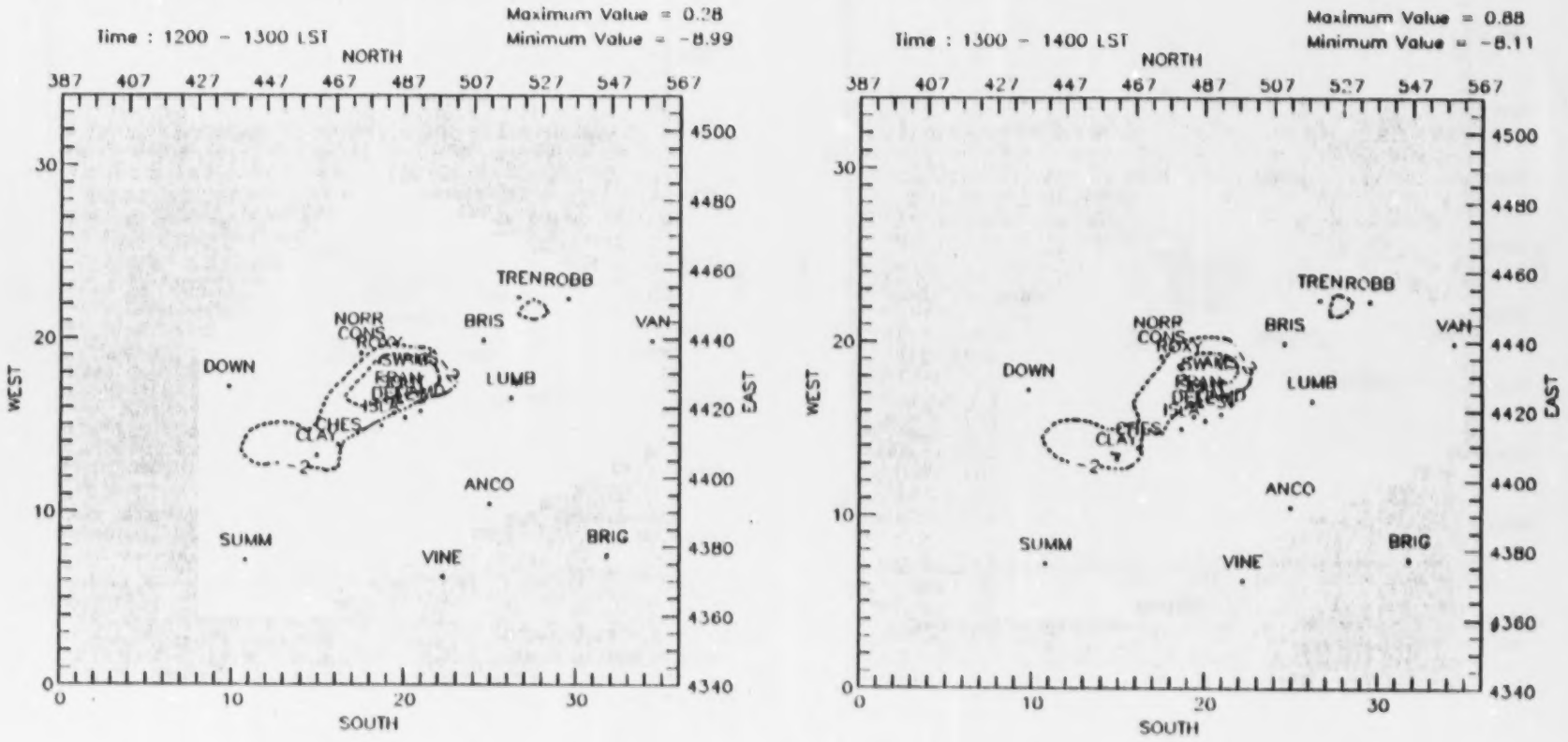


Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 cng and 1995 new reg gas on 13 July, 1979.

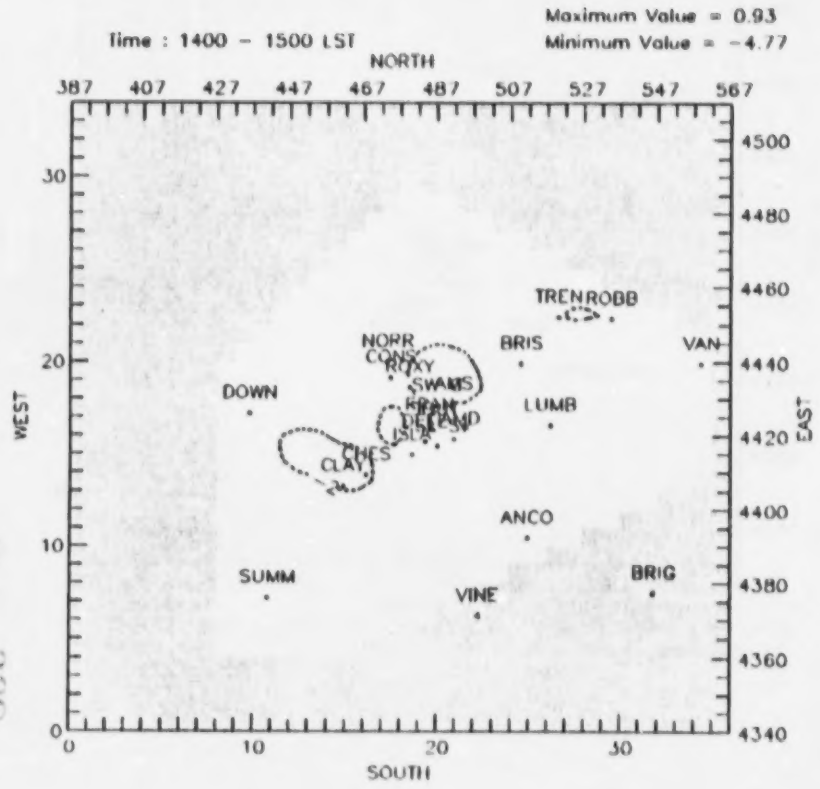


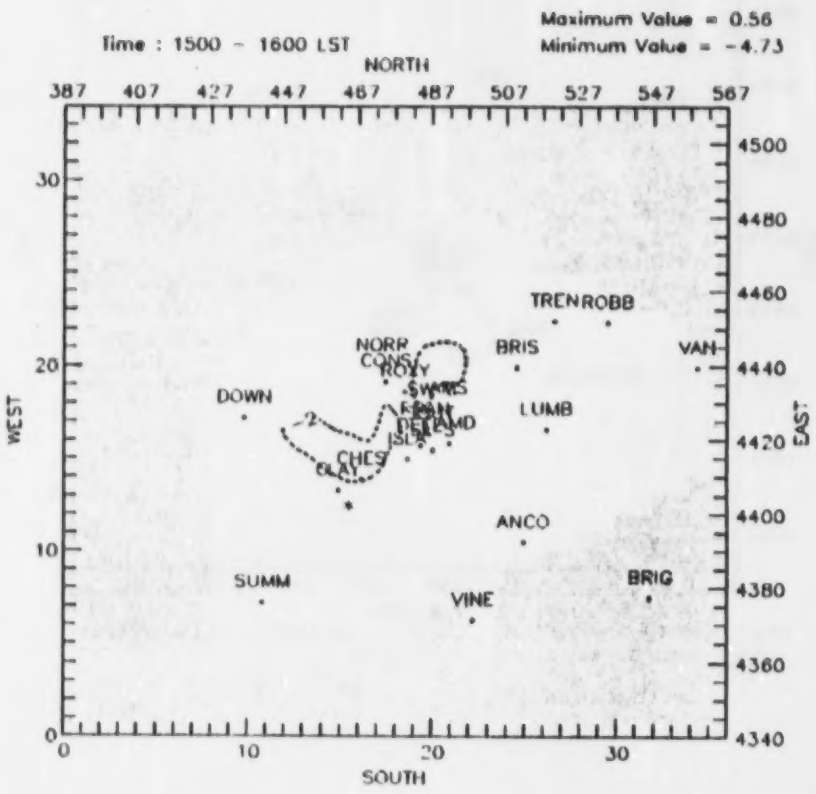


Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 cng and 1995 new reg gas on 13 July, 1979.

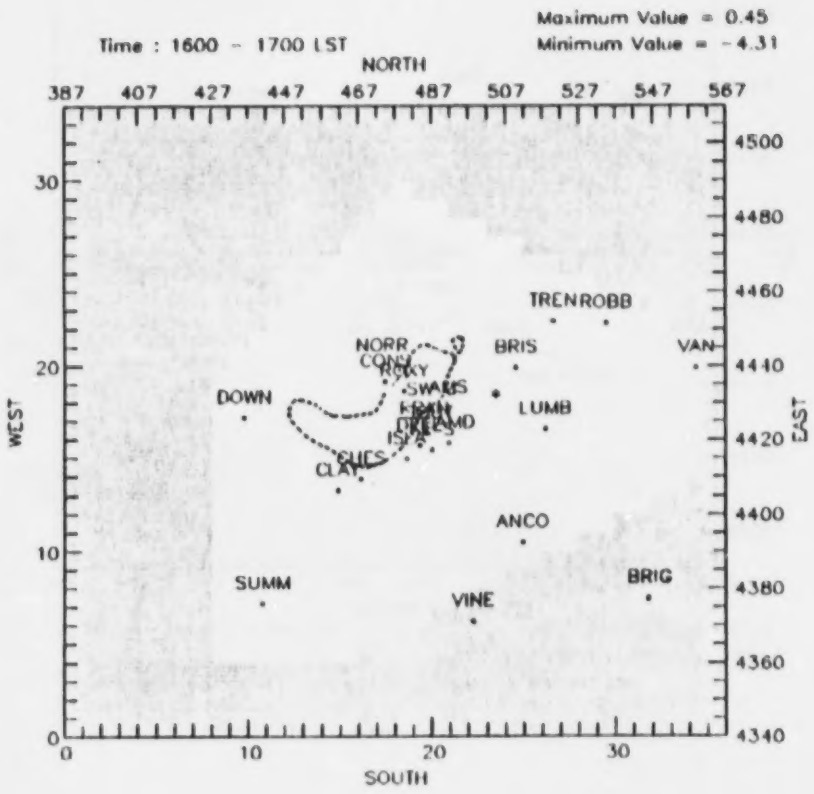


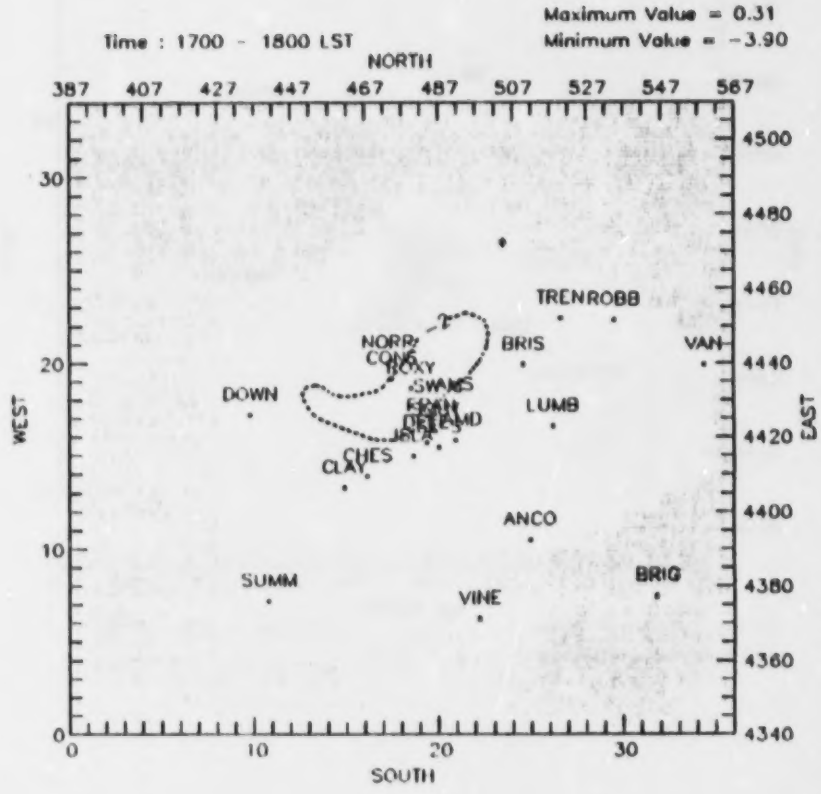
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 cng and 1995 new reg gas on 13 July, 1979.



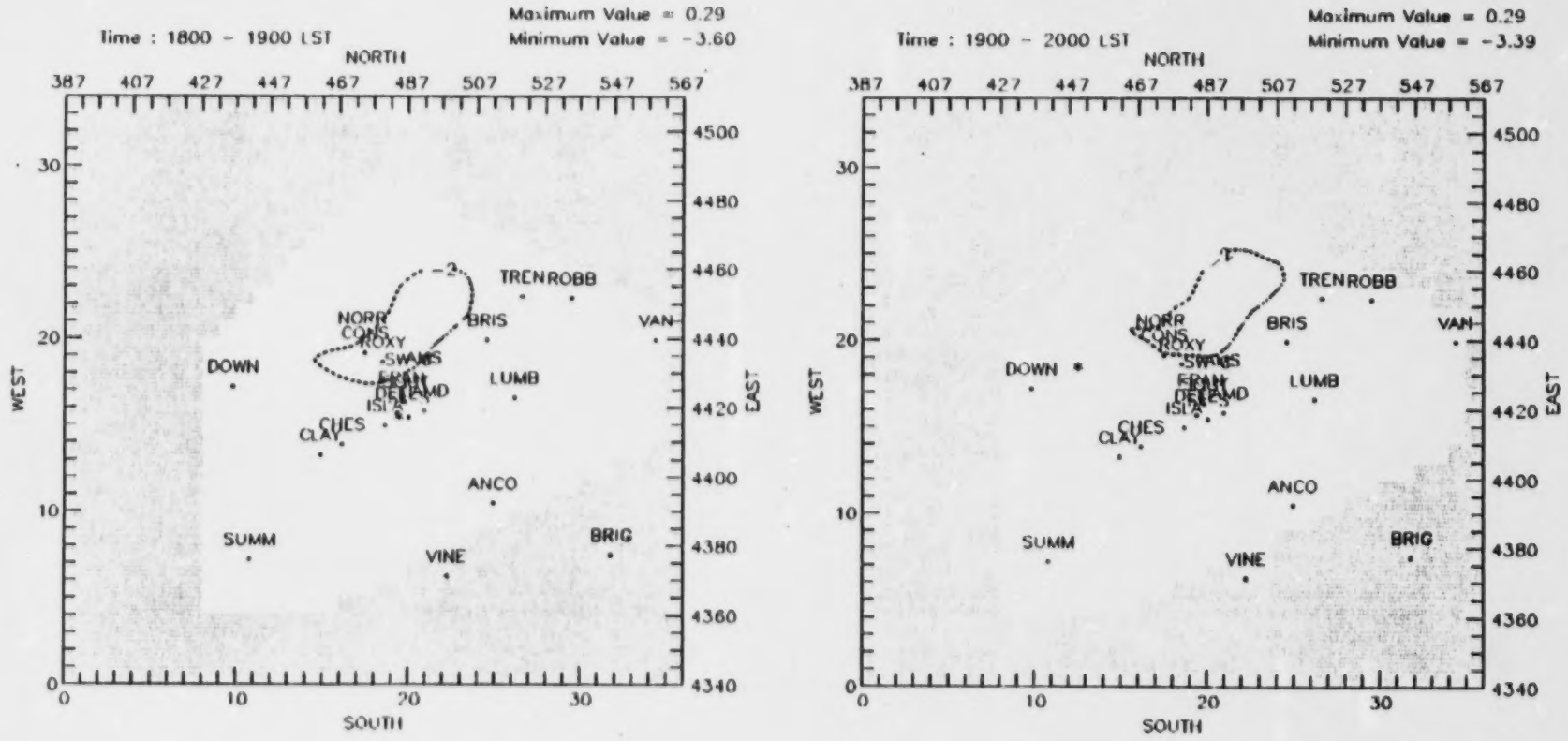


Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 cng and 1995 new reg gas on 13 July, 1979.





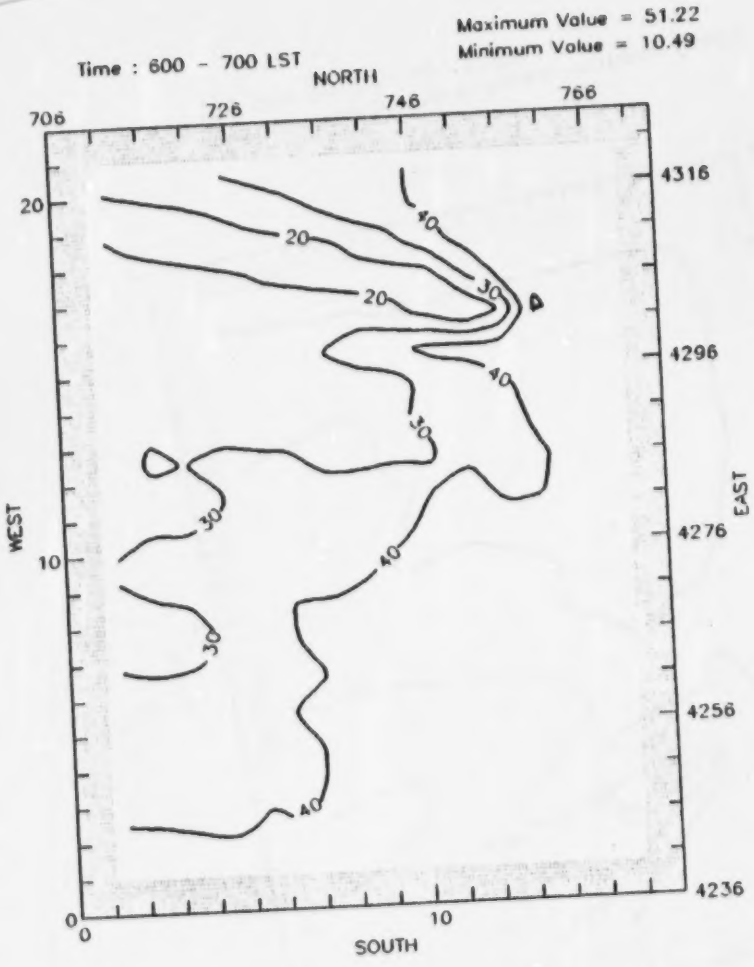
Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 cng and 1995 new reg gas on 13 July, 1979.

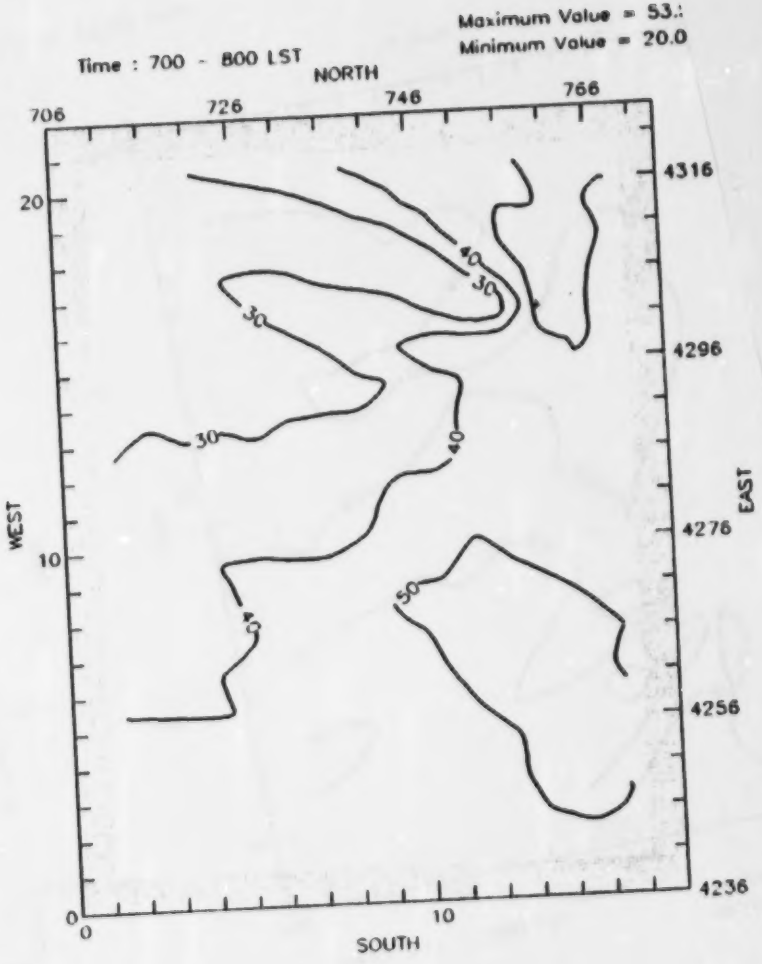


Differences in hourly ozone concentrations (ppb) for Philadelphia between 1995 cng and 1995 new reg gas on 13 July, 1979.

Appendix DD

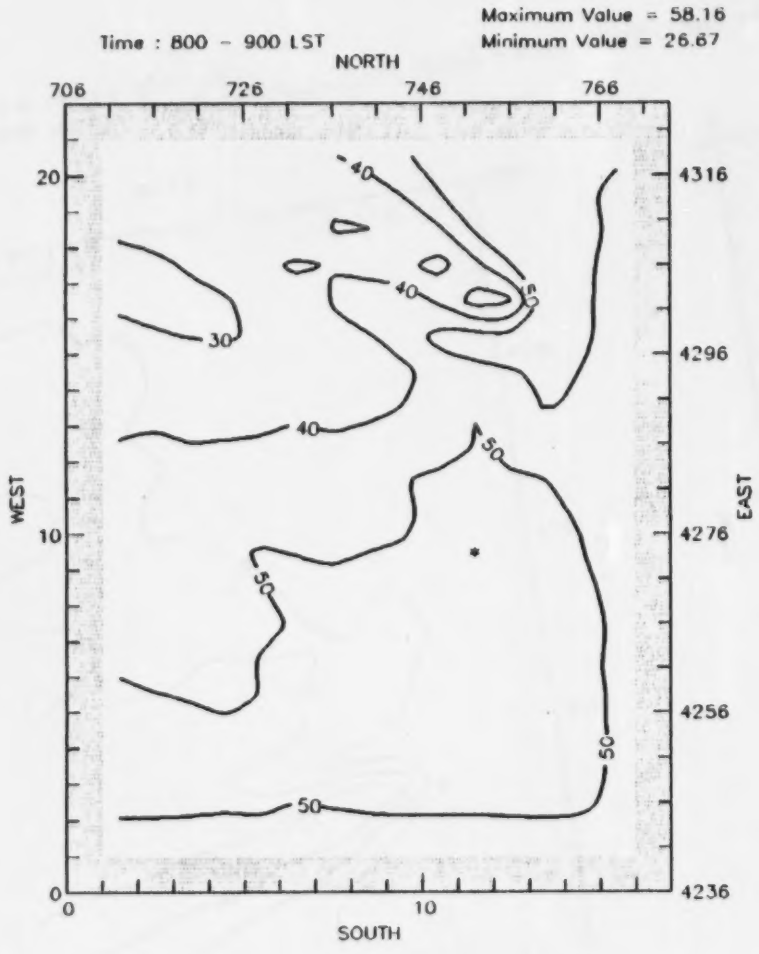
PREDICTED HOURLY OZONE CONCENTRATIONS (ppb) FOR ST. LOUIS
1995 NEW REGULATION GAS VEHICLE EMISSION SCENARIO

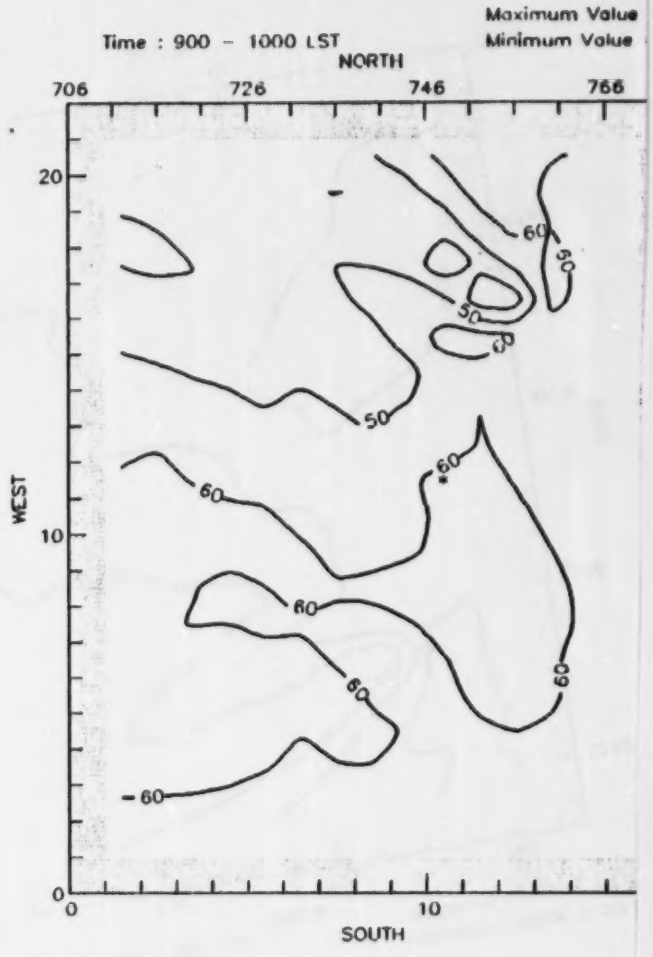




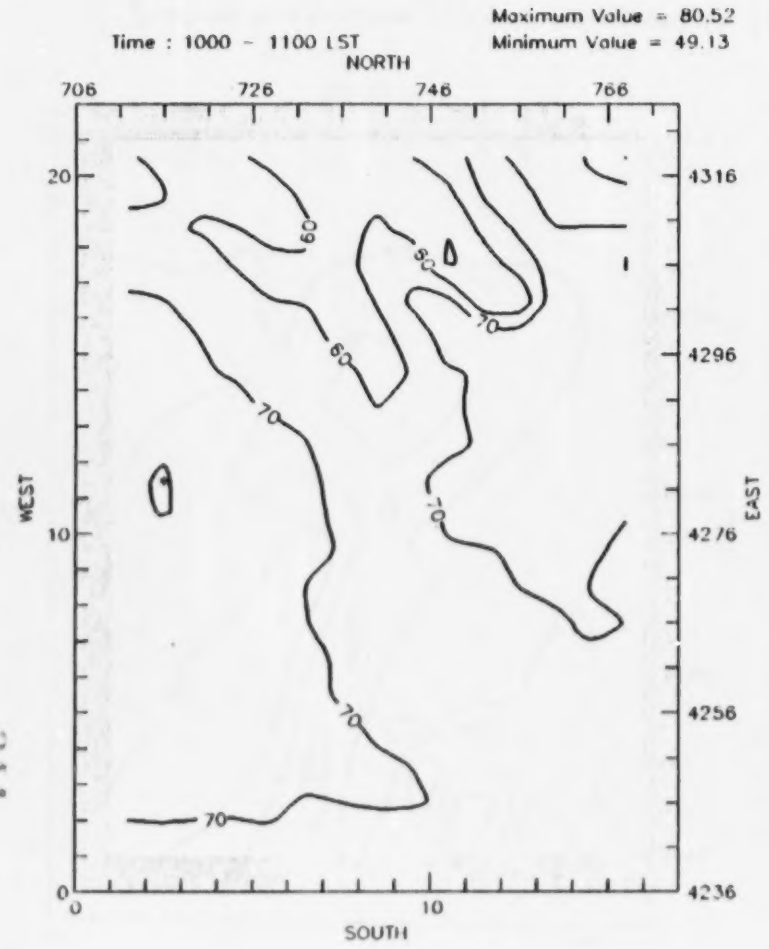
Average hourly ozone concentrations (ppb) for St. Louis 1995 new reg gas on 13 July, 1976.

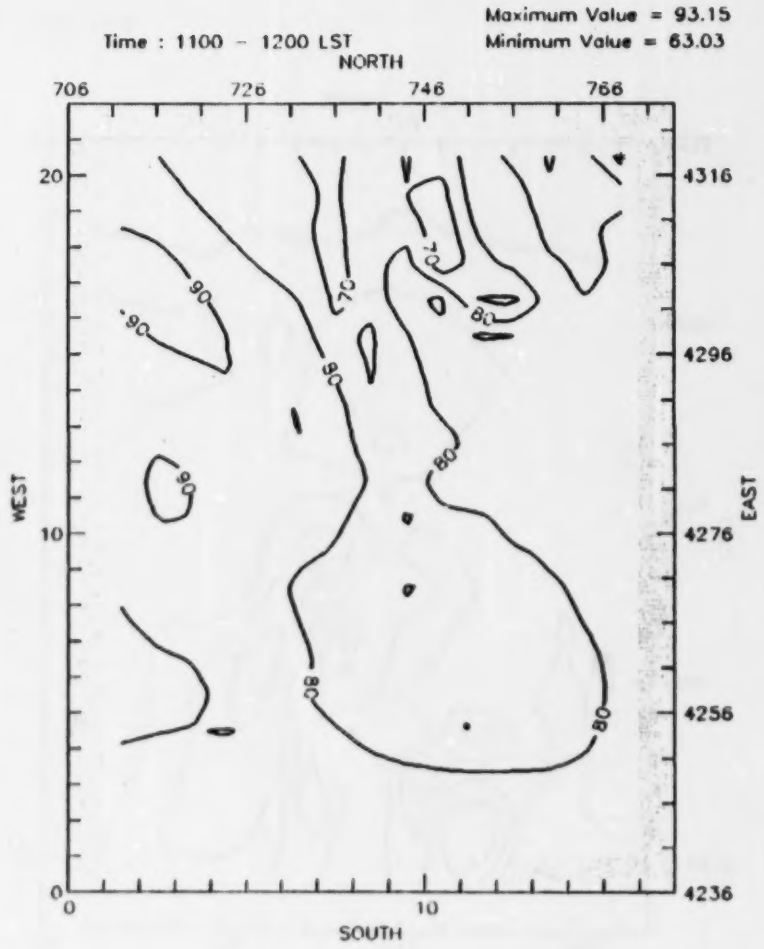
Reproduced from best available copy.



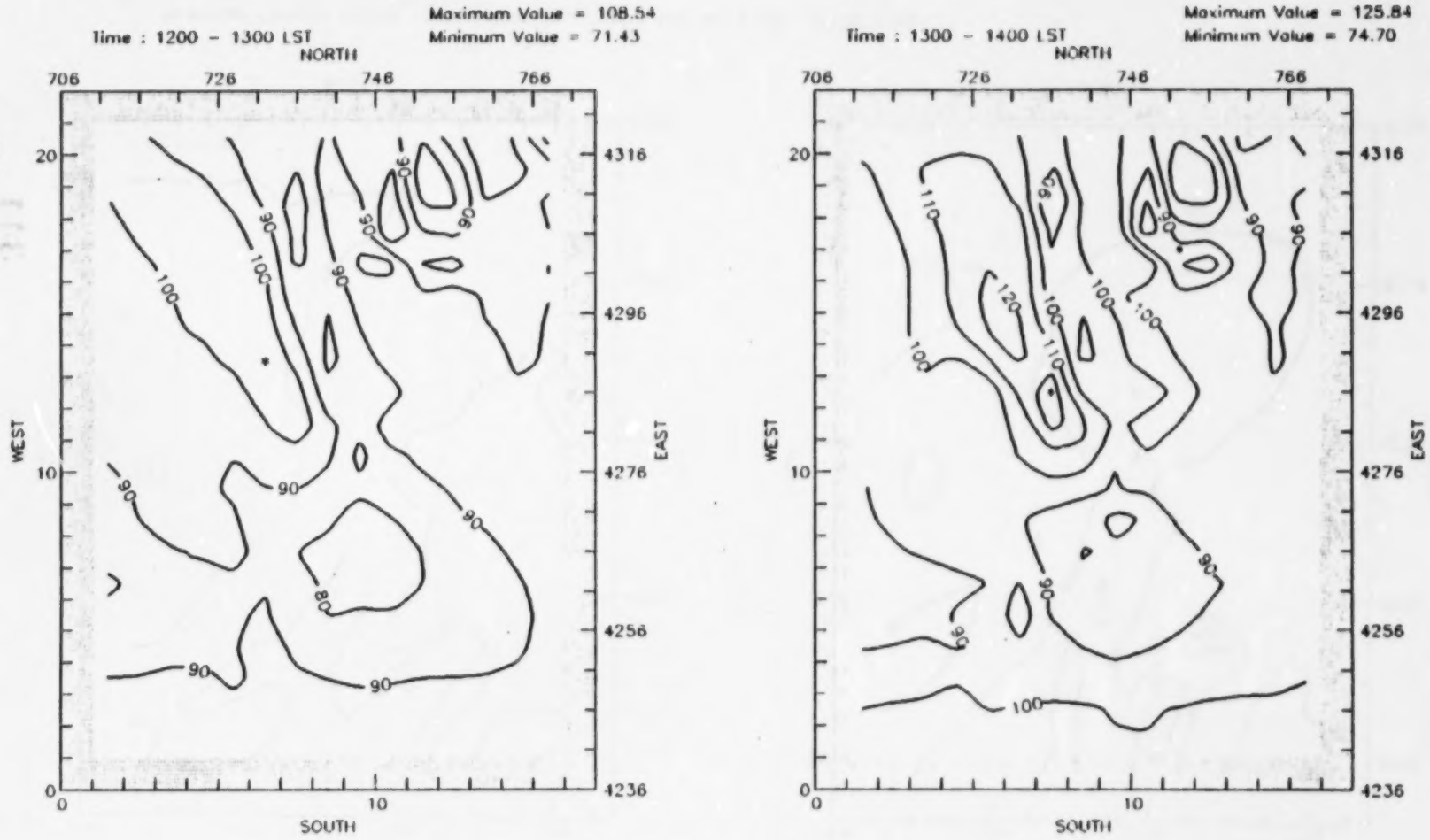


Average hourly ozone concentrations (ppb) for St. Louis 1995 new reg gas on 13 July, 1976.

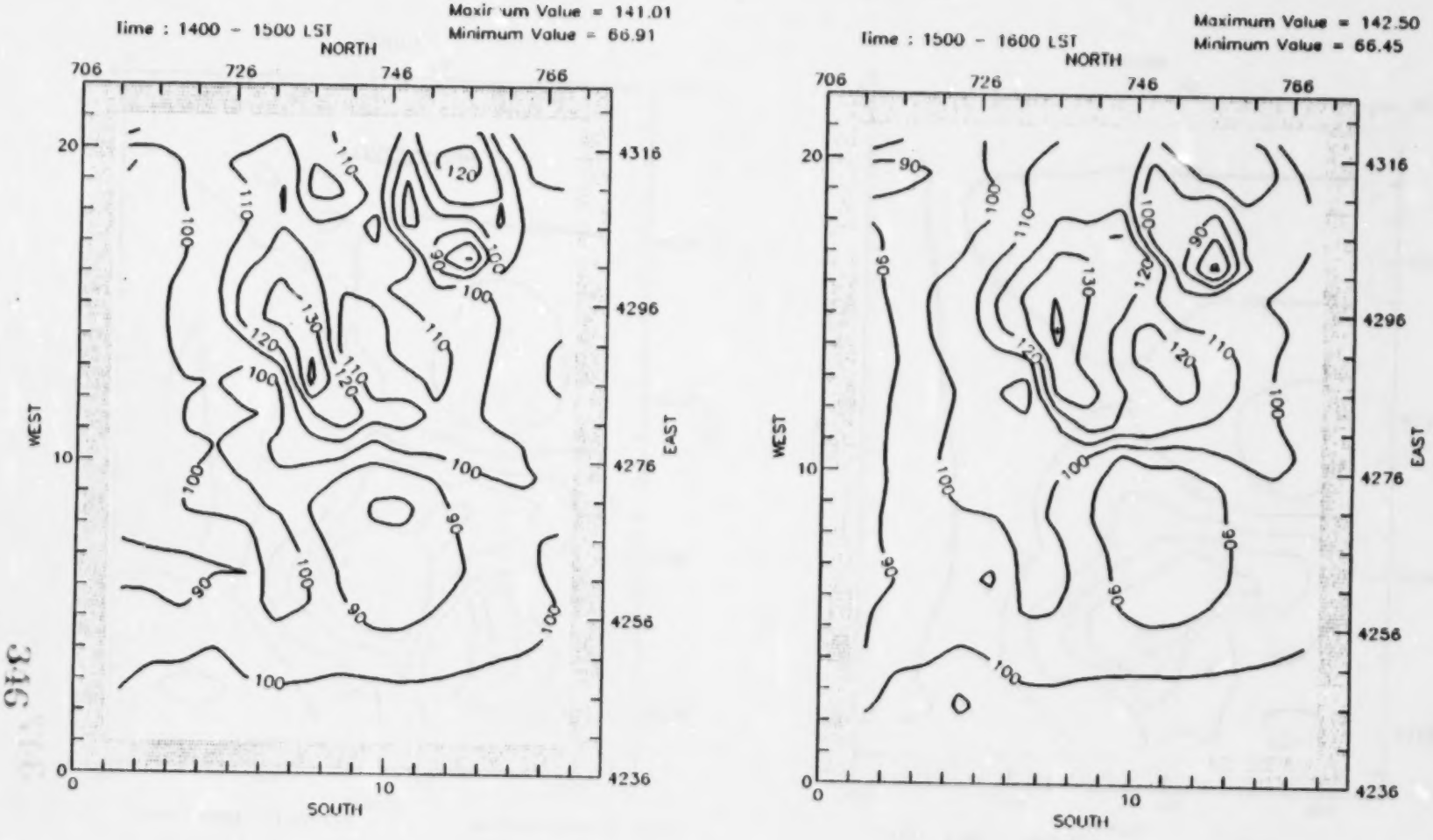




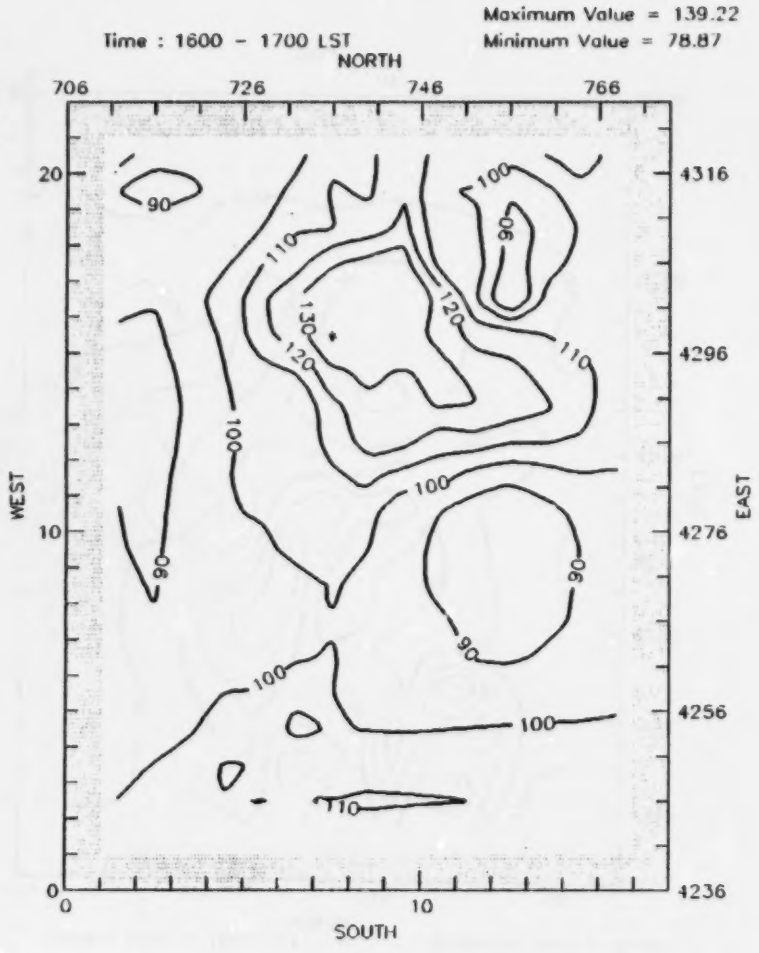
Average hourly ozone concentrations (ppb) for St. Louis 1995 new reg gas on 13 July, 1976.

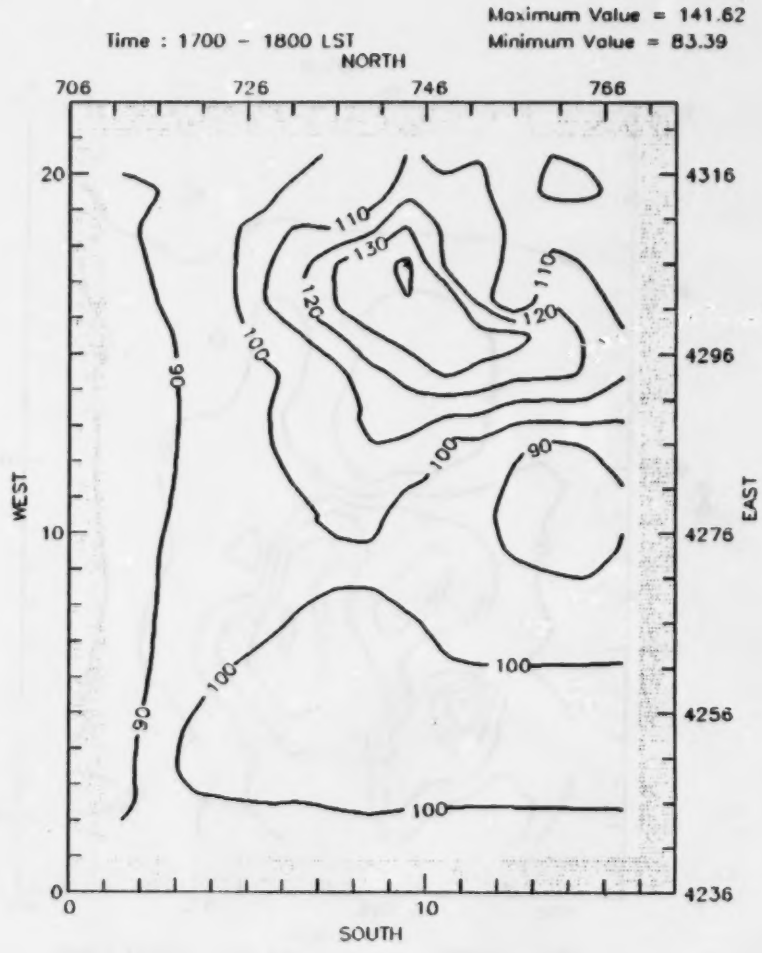


Average hourly ozone concentrations (ppb) for St. Louis 1995 new reg gas on 13 July, 1976.

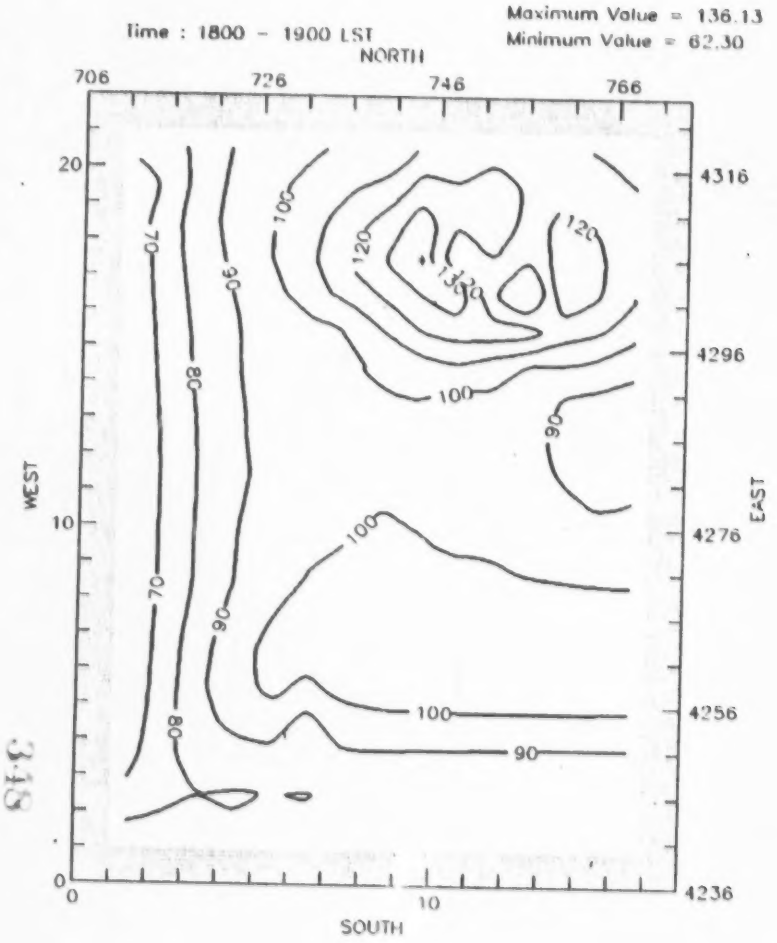


Average hourly ozone concentrations (ppb) for St. Louis 1995 new reg gas on 13 July, 1976.





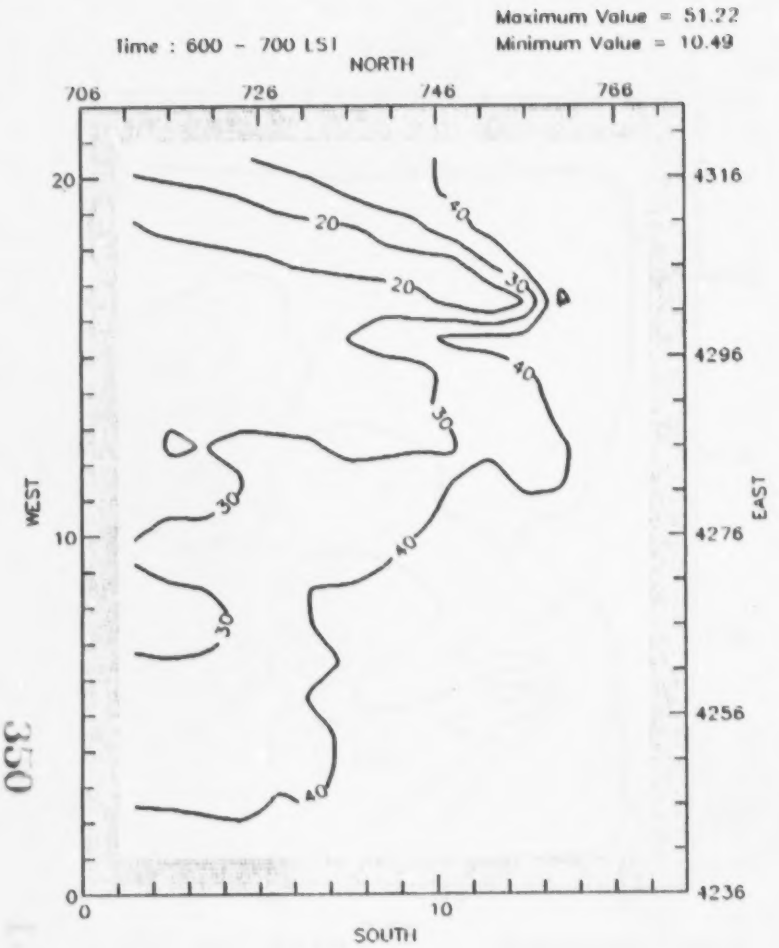
Average hourly ozone concentrations (ppb) for St. Louis 1995 new reg gas on 13 July, 1976.

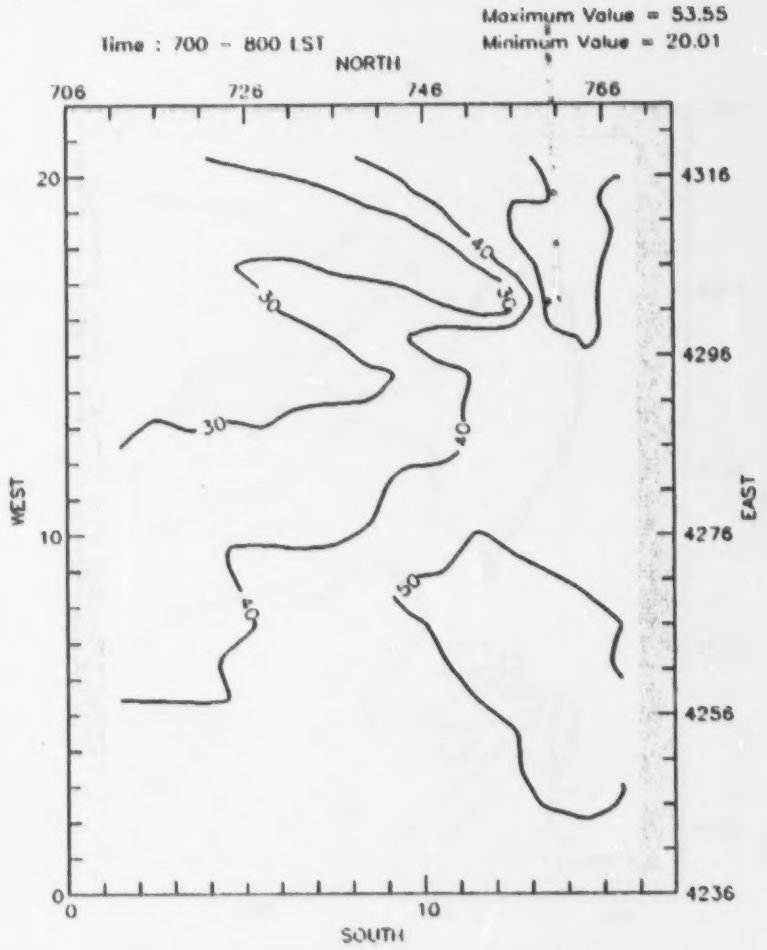


Average hourly ozone concentrations (ppb) for St. Louis 1995 new reg gas on 13 July, 1976.

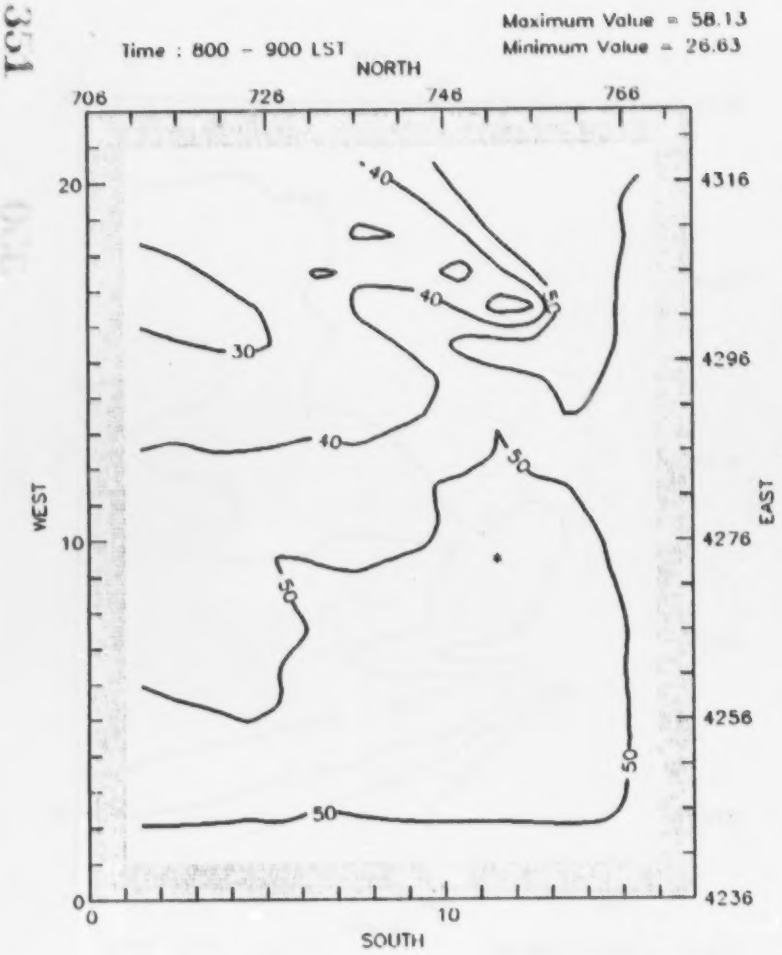
Appendix EE

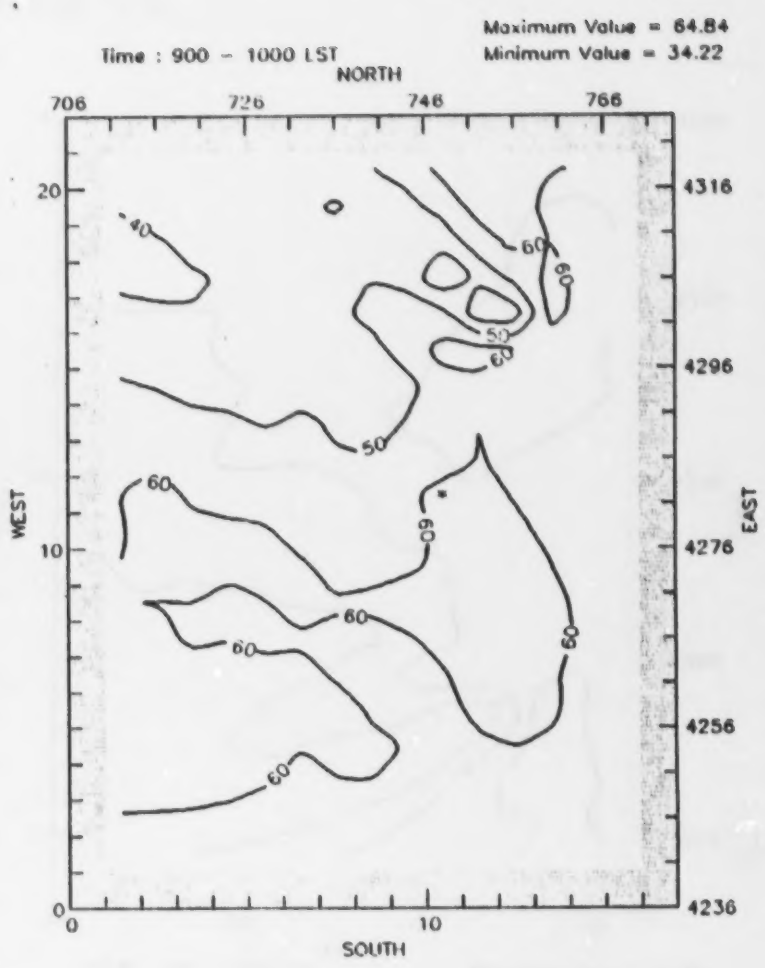
PREDICTED HOURLY OZONE CONCENTRATIONS (ppb) FOR ST. LOUIS
1995 100 PERCENT METHANOL (M100) VEHICLE EMISSION SCENARIO



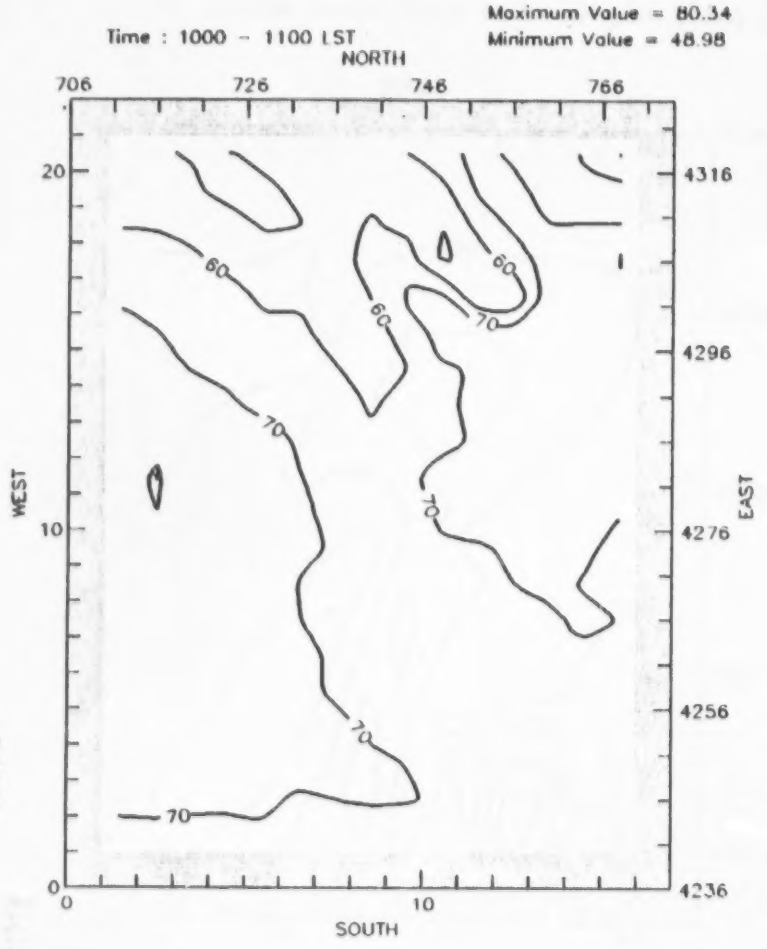


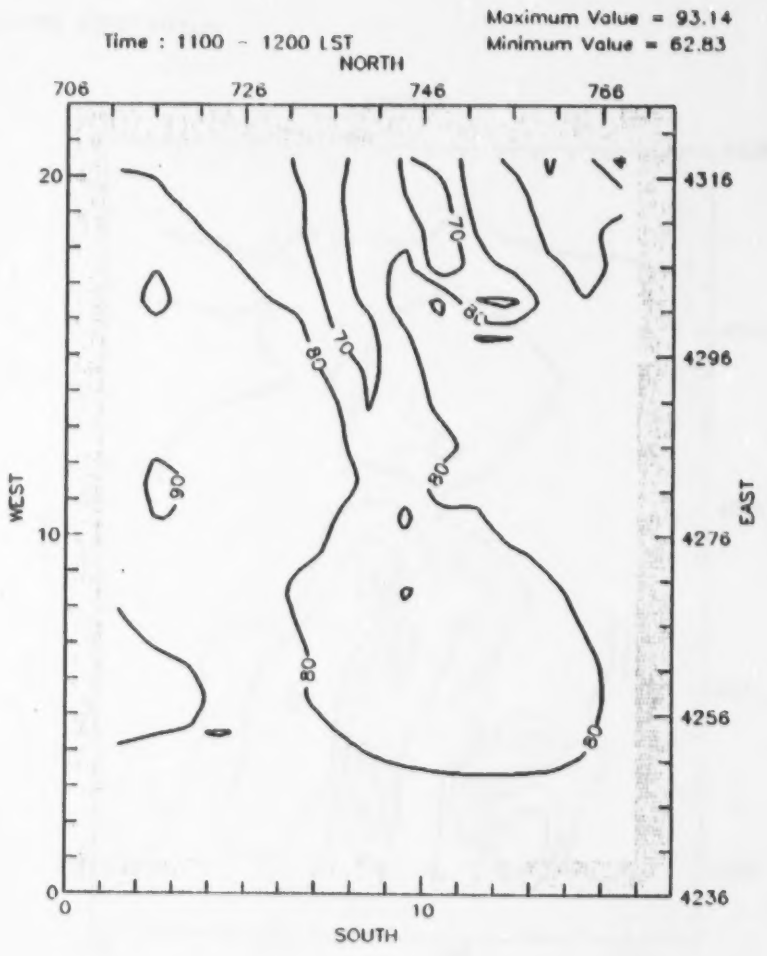
Average hourly ozone concentrations (ppb) for St. Louis 1995 m100 on 13 July, 1976.



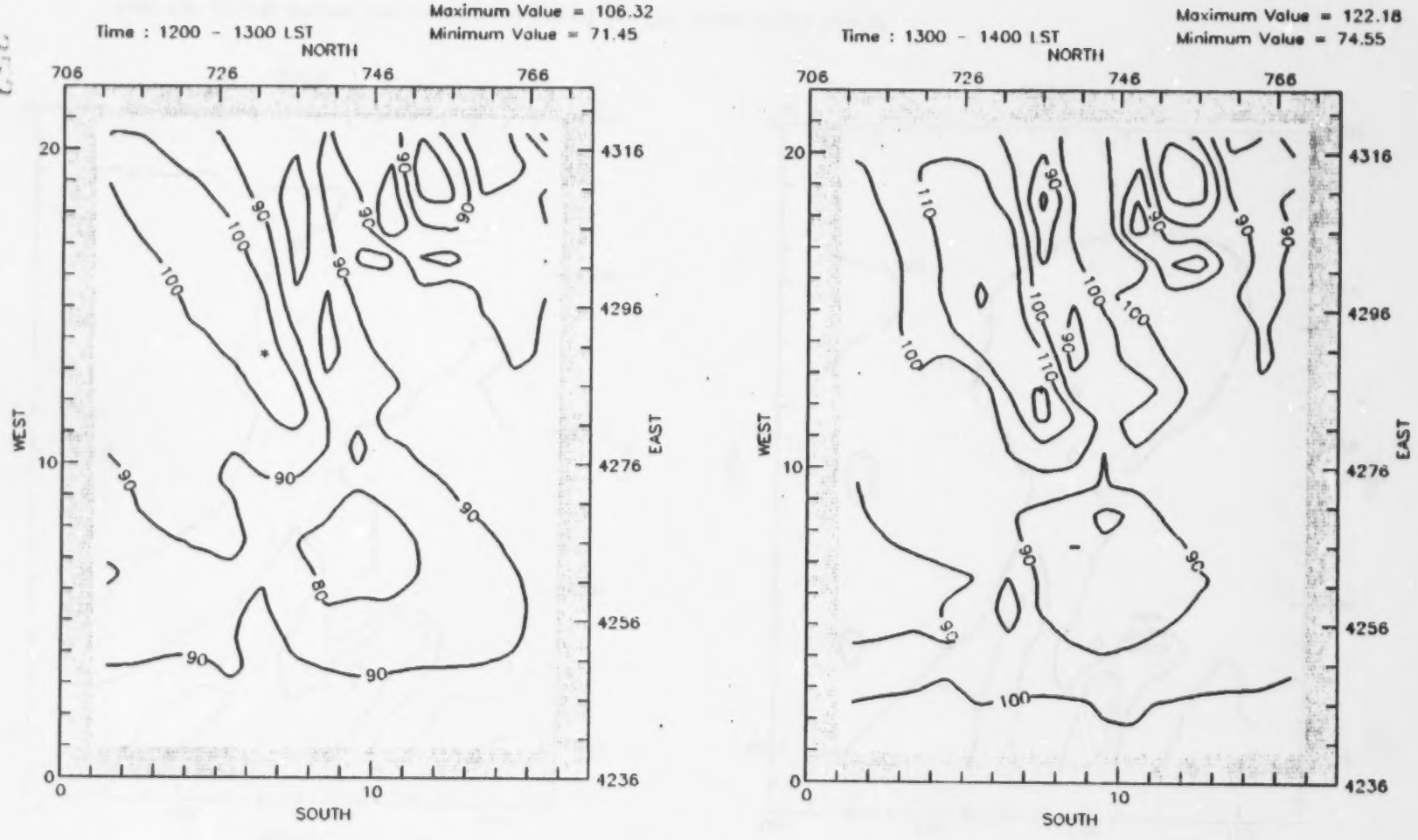


Average hourly ozone concentrations (ppb) for St. Louis 1995 m100 on 13 July, 1976.

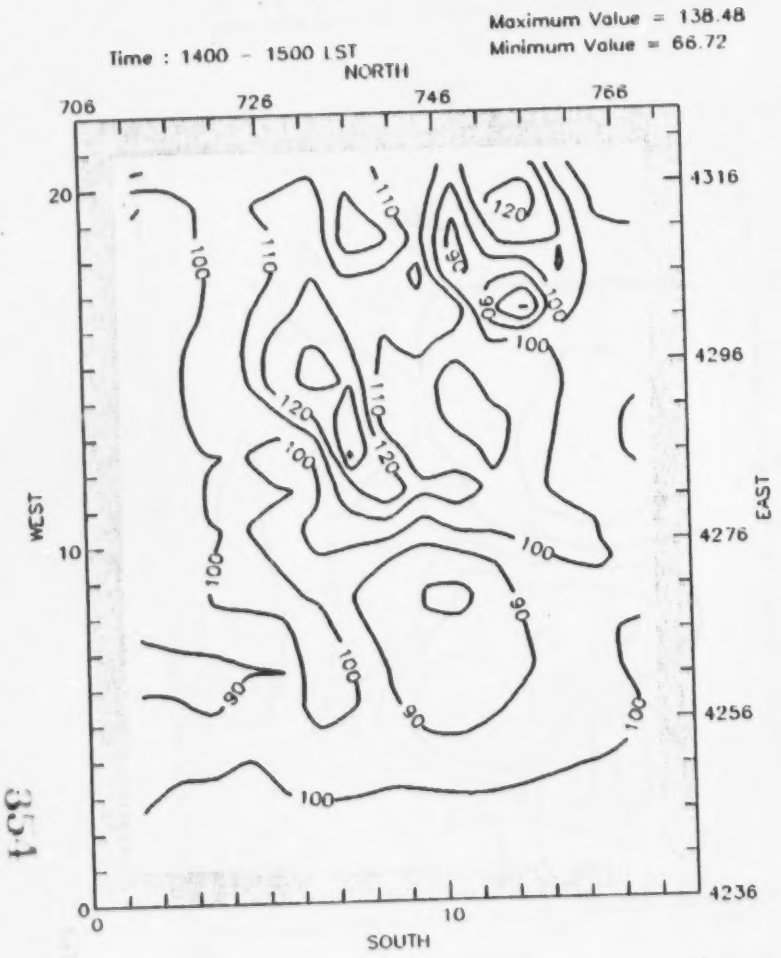


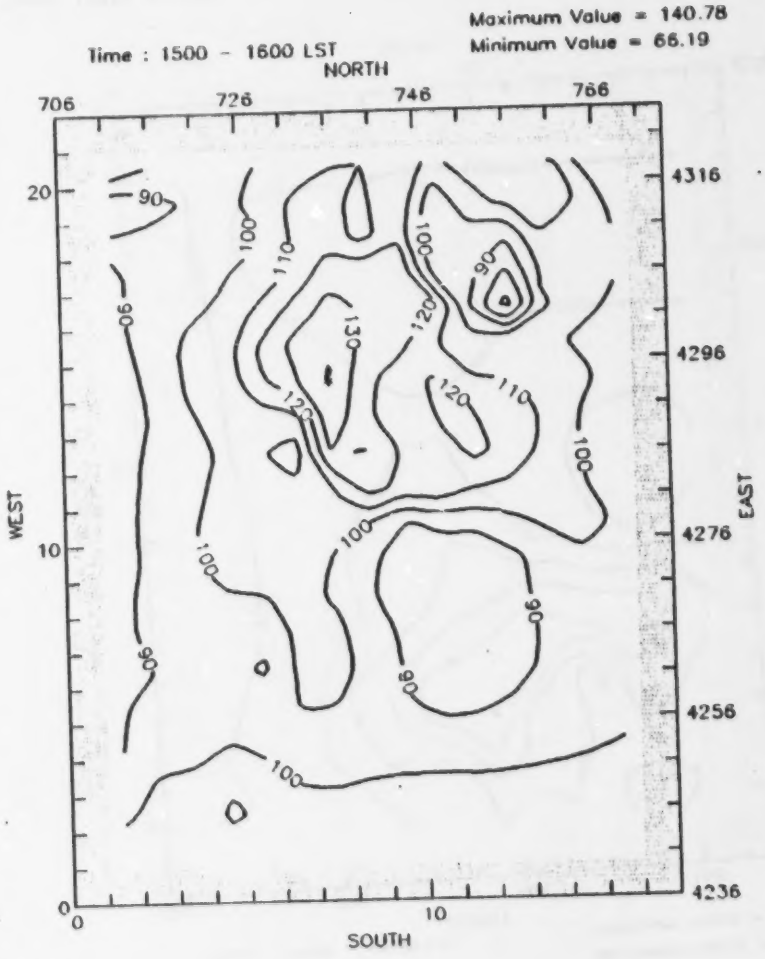


Average hourly ozone concentrations (ppb) for St. Louis 1995 m100 on 13 July, 1976.

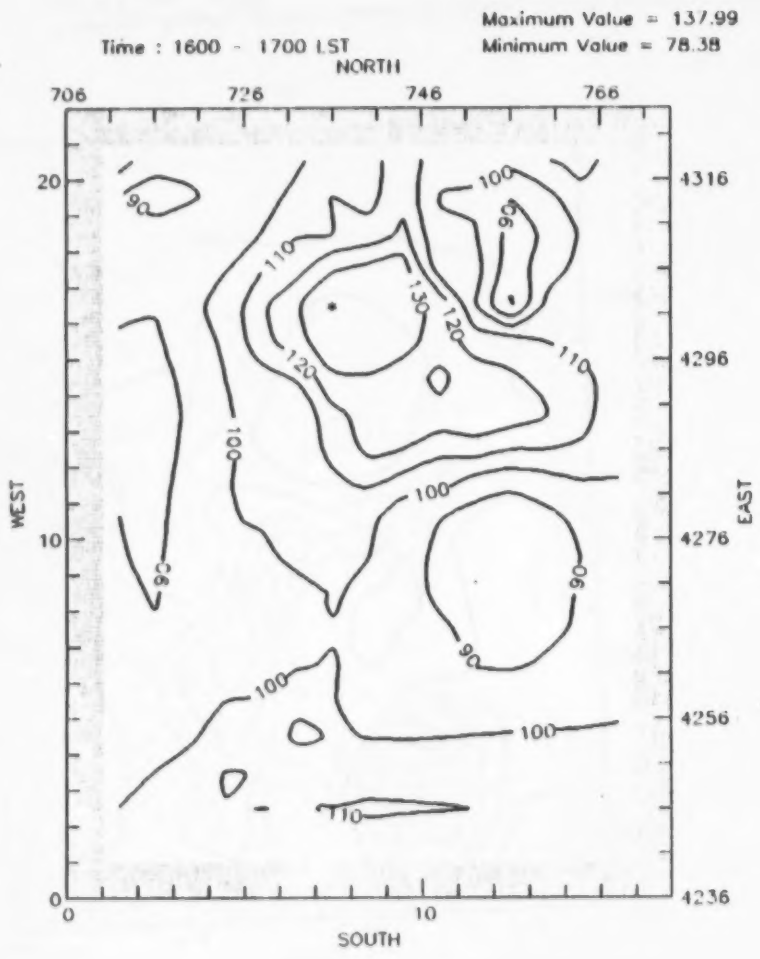


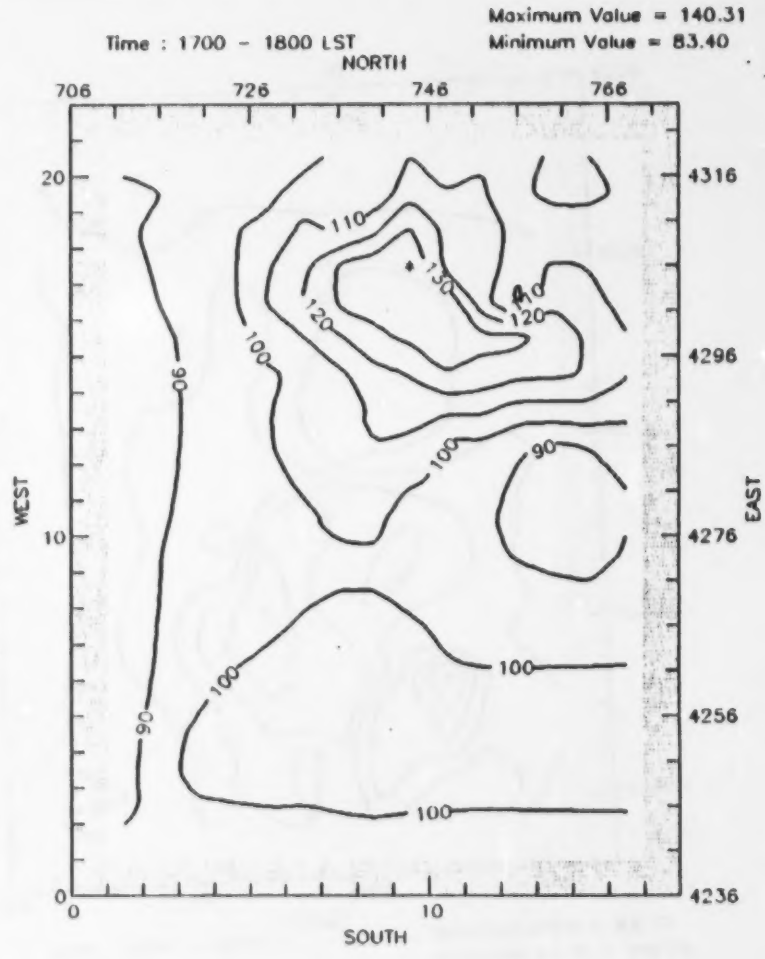
Average hourly ozone concentrations (ppb) for St. Louis 1995 m100 on 13 July, 1976.



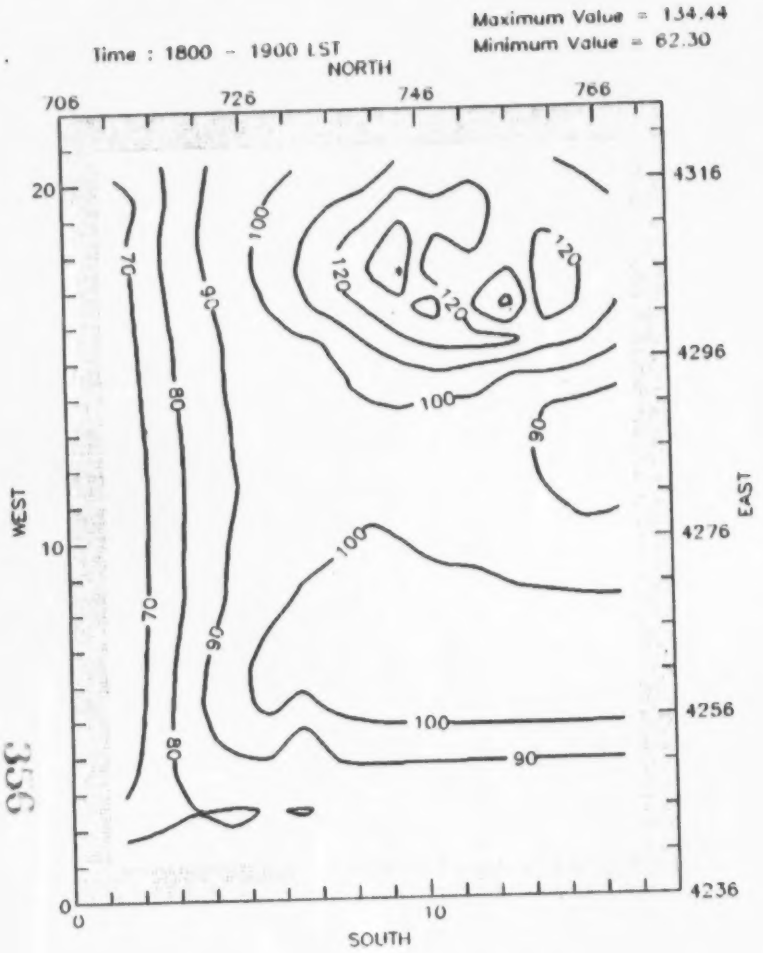


Average hourly ozone concentrations (ppb) for St. Louis 1995 m100 on 13 July, 1976.





Average hourly ozone concentrations (ppb) for St. Louis 1995 m100 on 13 July, 1976.

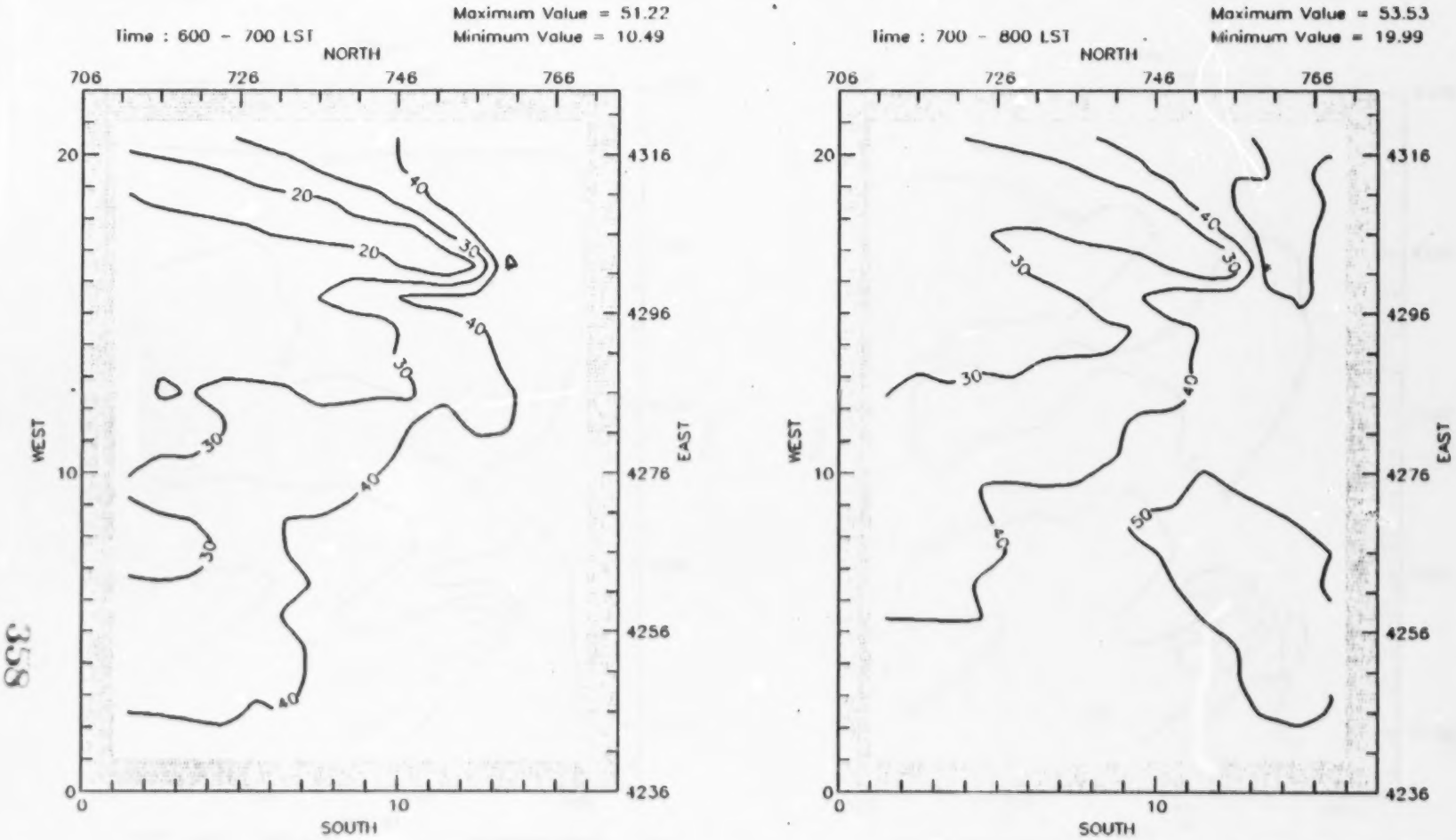


Average hourly ozone concentrations (ppb) for St. Louis 1995 m100 on 13 July, 1976.

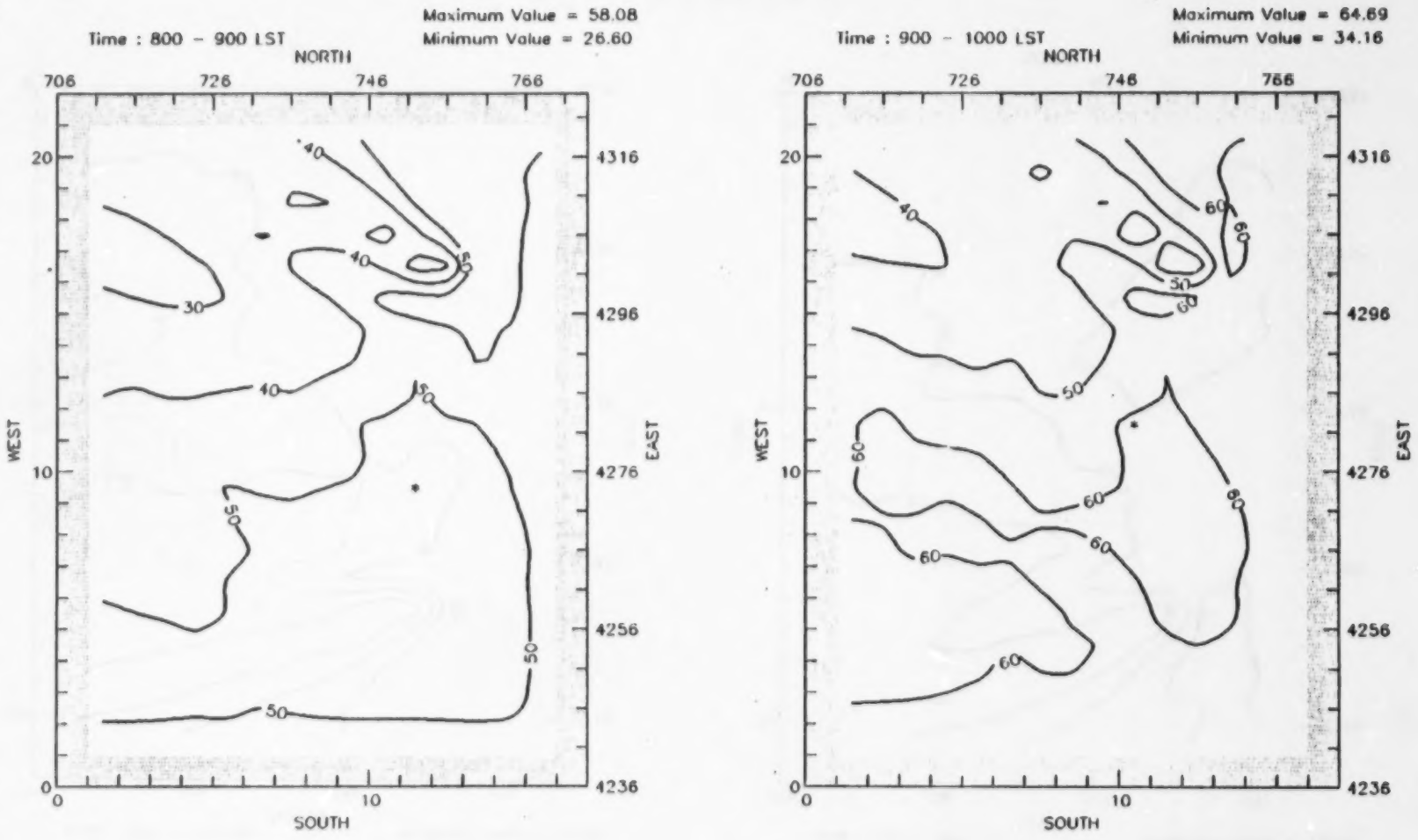
Appendix FF

PREDICTED HOURLY OZONE CONCENTRATIONS (ppb) FOR ST. LOUIS 1995 100 PERCENT COMPRESSED NATURAL GAS (CNG) VEHICLE EMISSION SCENARIO

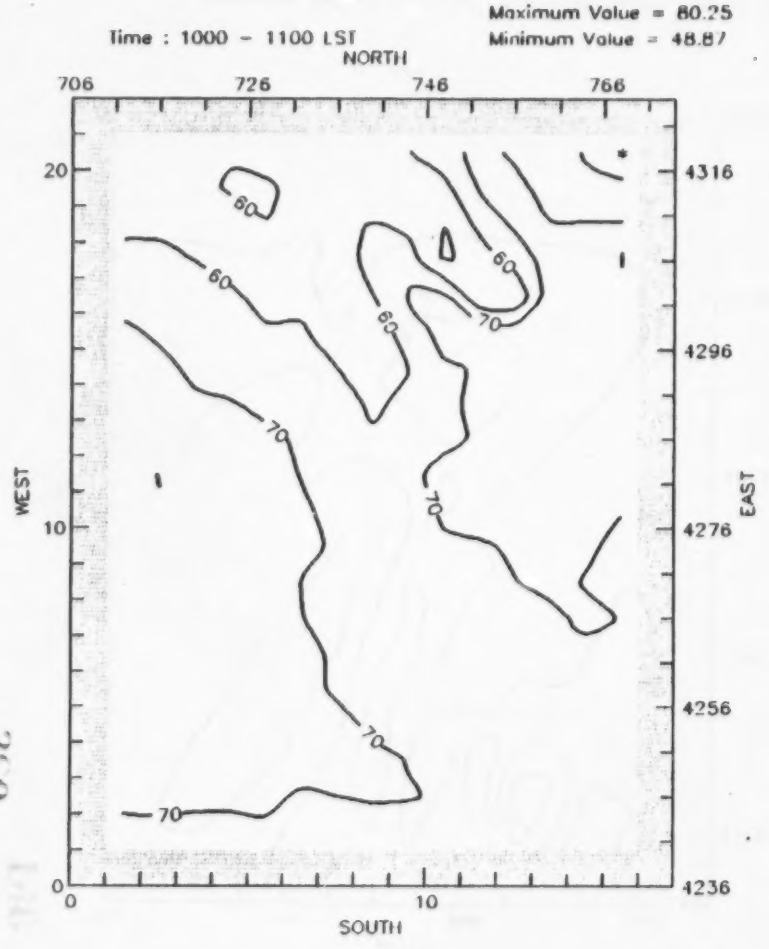
E7260 89116r1

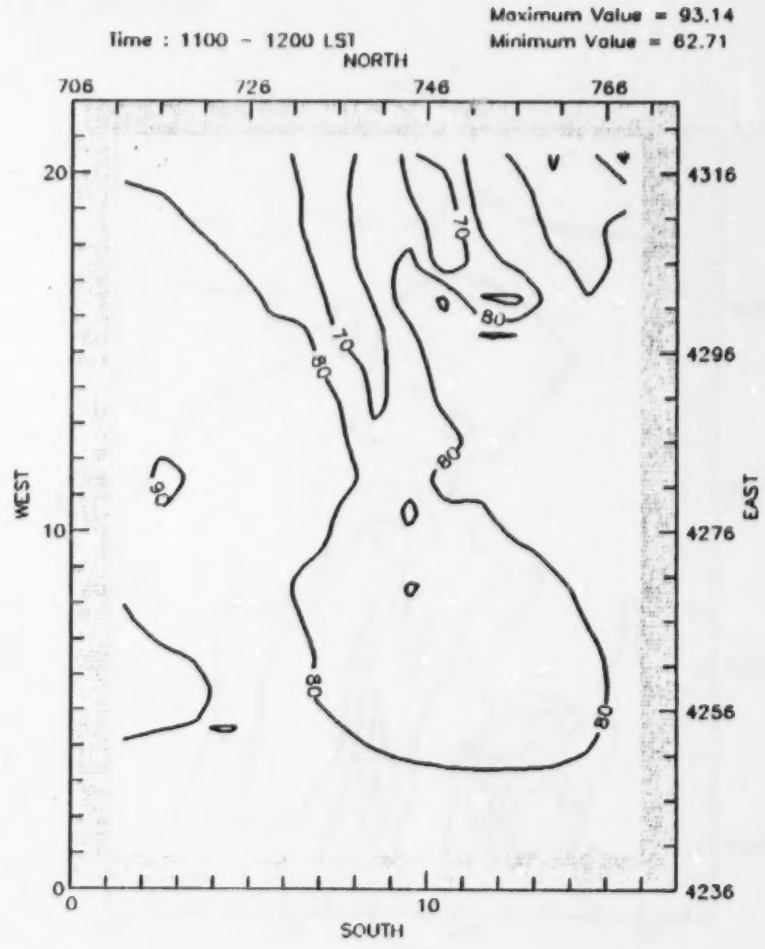


Average hourly ozone concentrations (ppb) for St. Louis 1995 cng on 13 July, 1976.

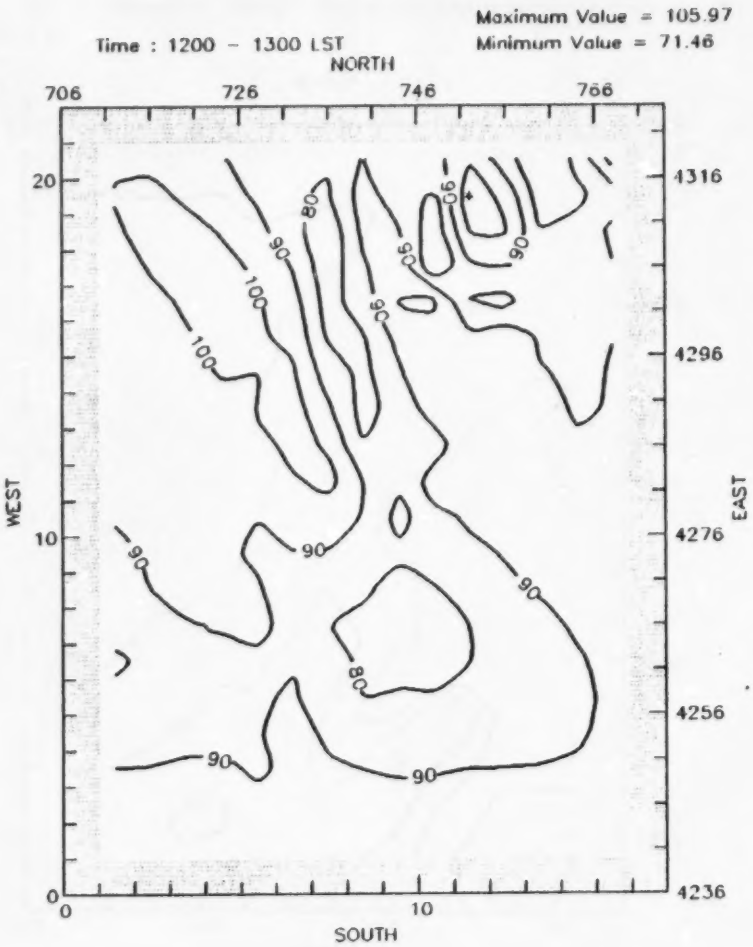


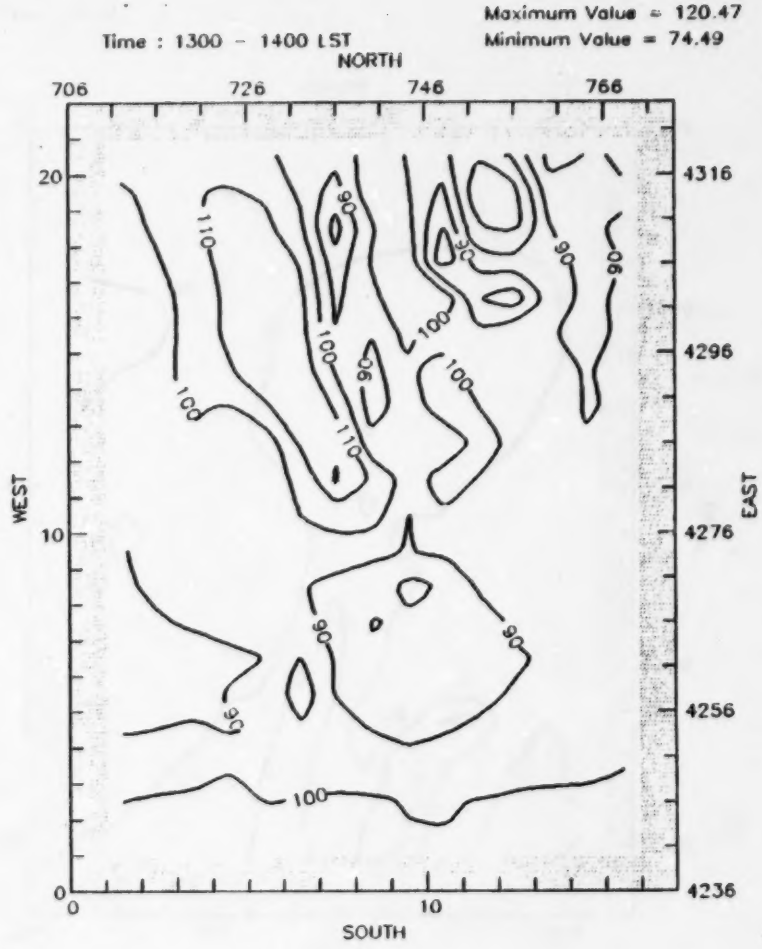
Average hourly ozone concentrations (ppb) for St. Louis 1995 cng on 13 July, 1976.



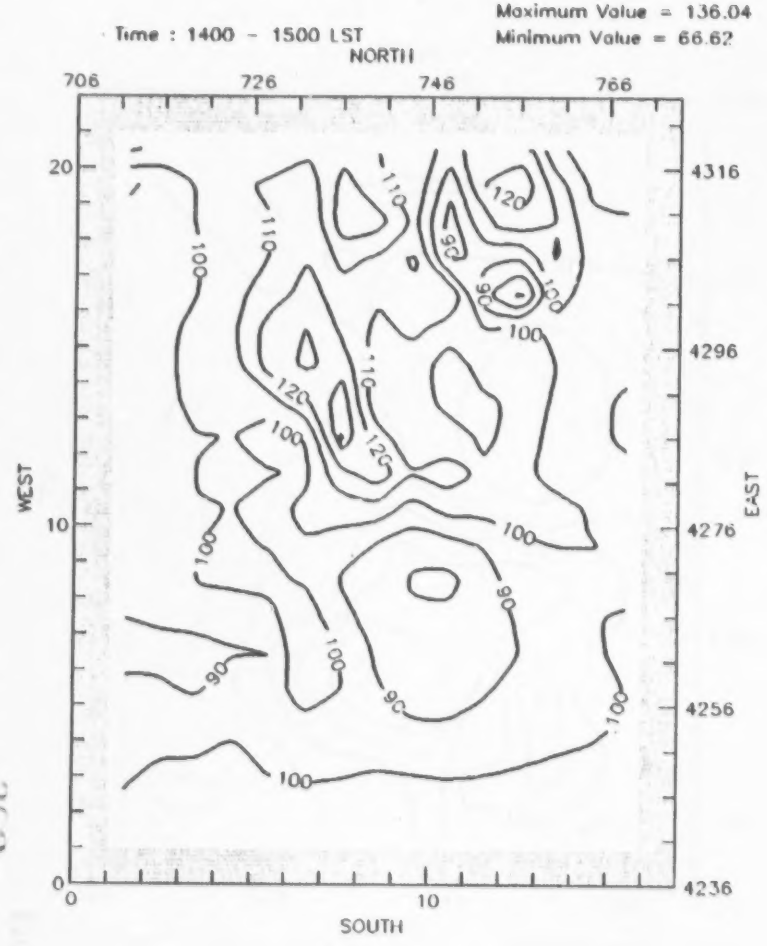


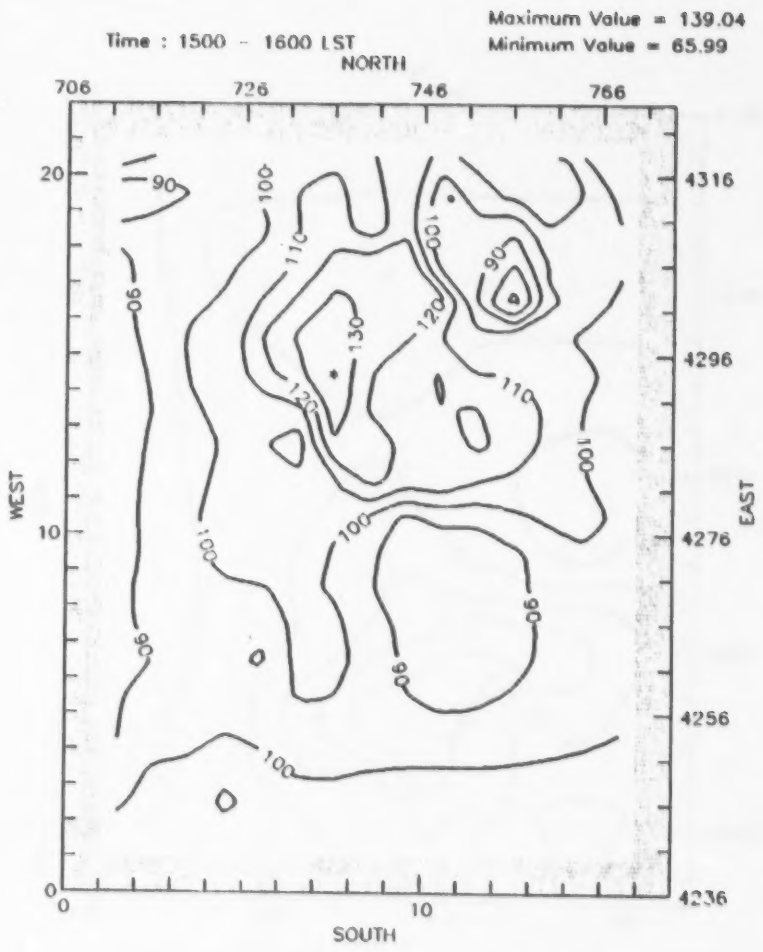
Average hourly ozone concentrations (ppb) for St. Louis 1995 cng on 13 July, 1976.



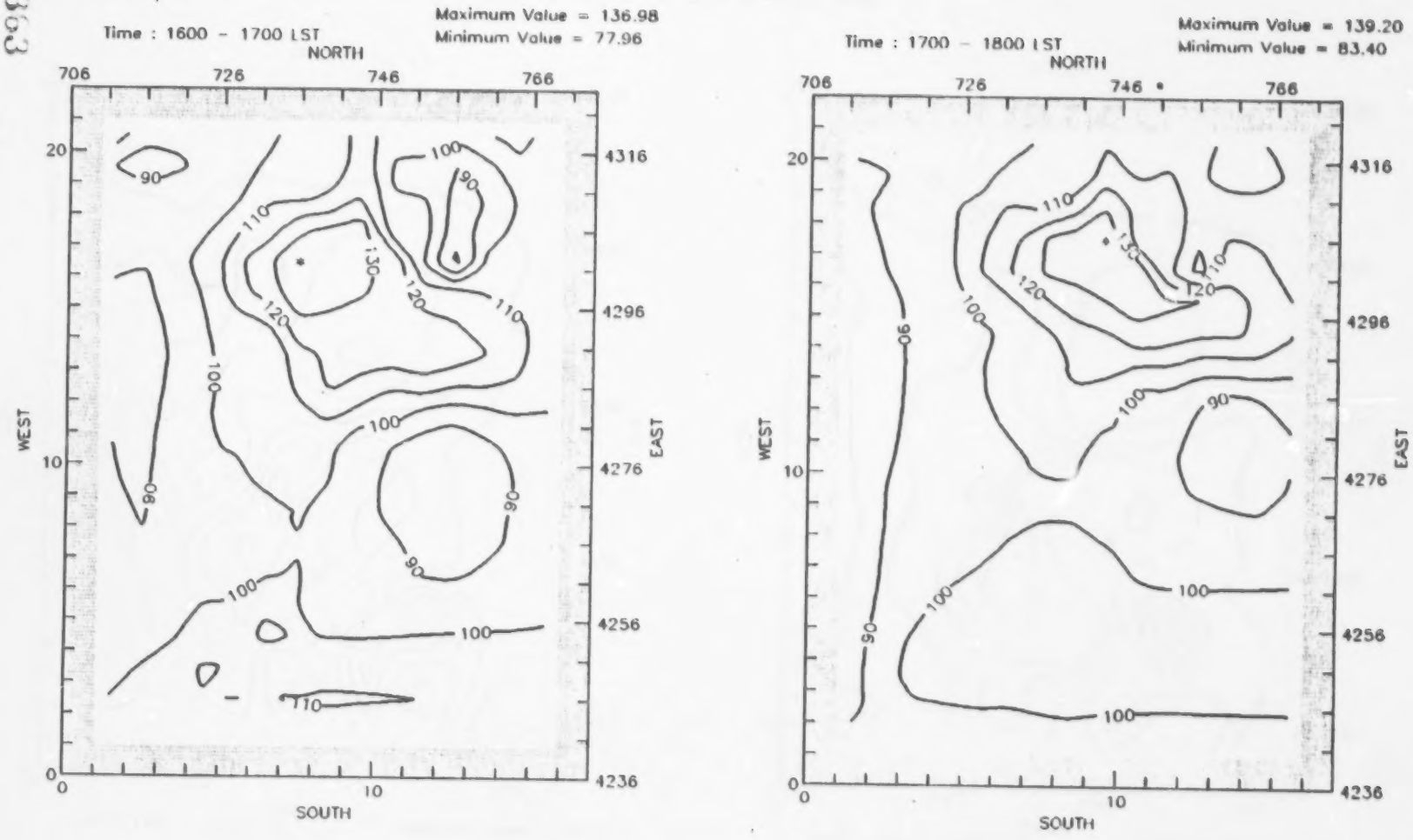


Average hourly ozone concentrations (ppb) for St. Louis 1995 cng on 13 July, 1976.

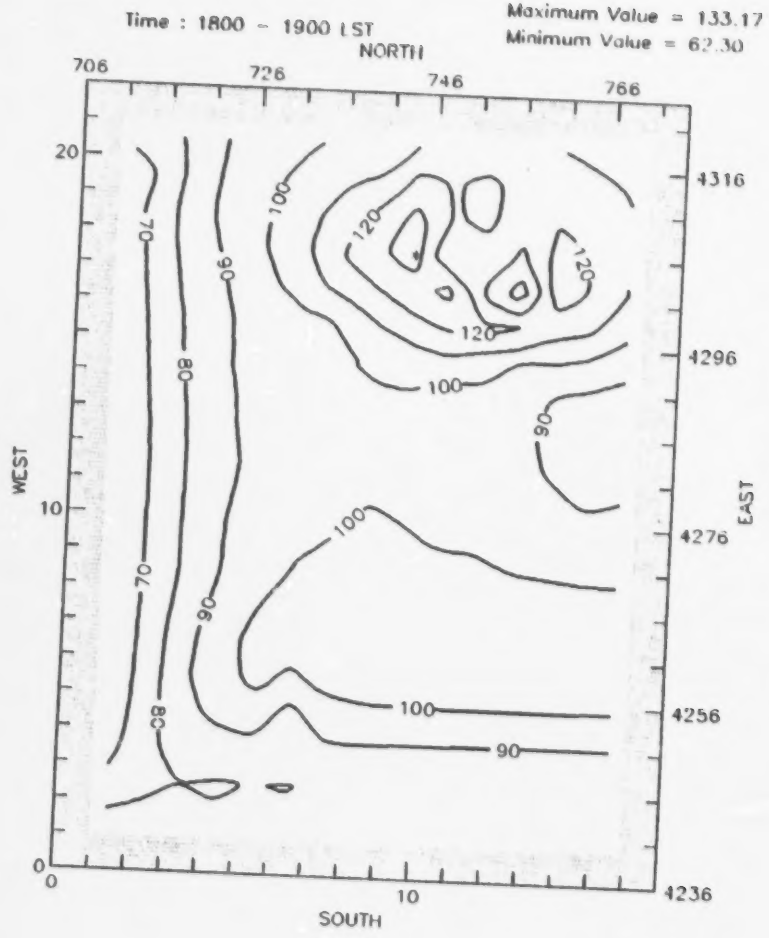




Average hourly ozone concentrations (ppb) for St. Louis 1995 cng on 13 July, 1976.



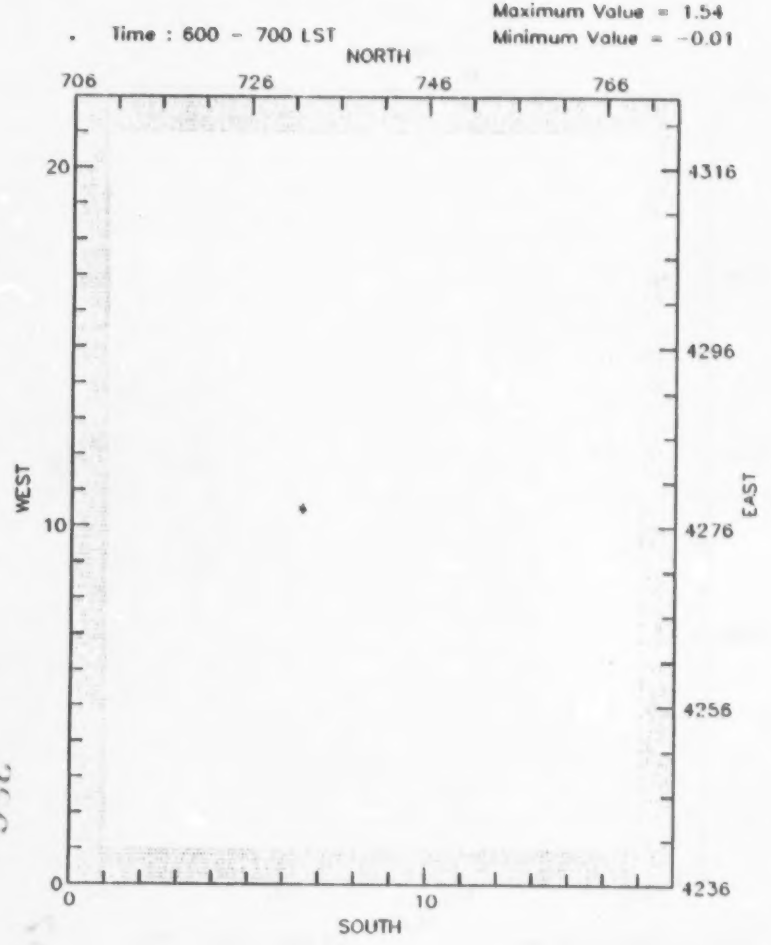
Average hourly ozone concentrations (ppb) for St. Louis 1995 cng on 13 July, 1976.

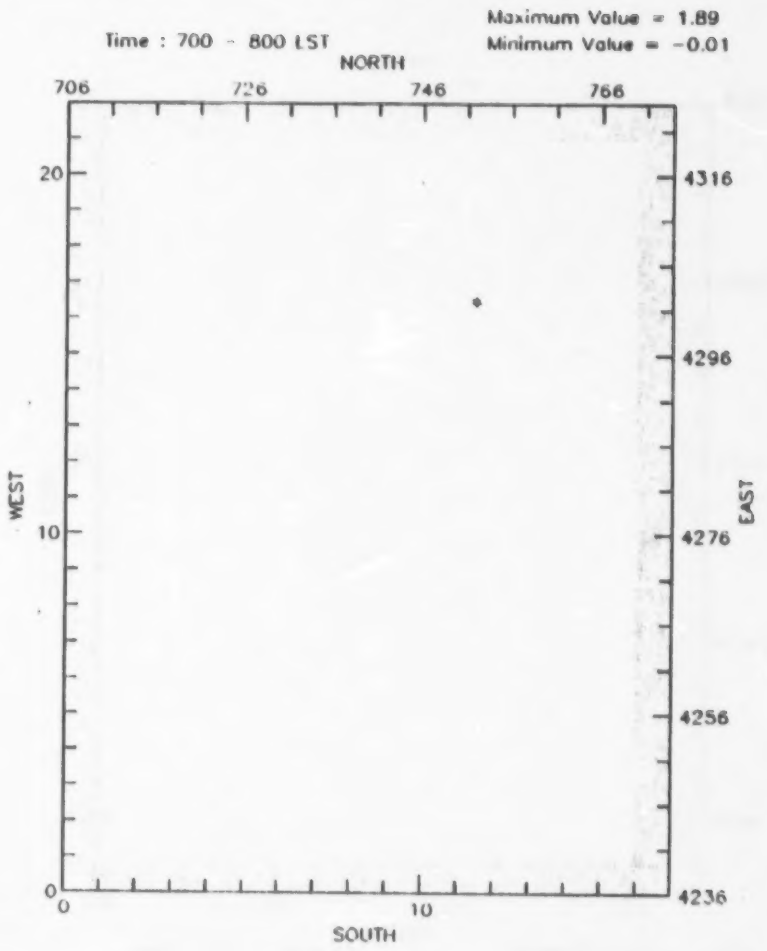


Average hourly ozone concentrations (ppb) for St. Louis 1995 cng on 13 July, 1976.

Appendix GG

DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) BETWEEN ST. LOUIS 1995 NEW REGULATION GAS VEHICLE AND BASE CASE EMISSION SCENARIOS (NEW REGULATION GAS MINUS BASE CASE)





Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 new reg gas and 1995 base case on 13 July, 1976.

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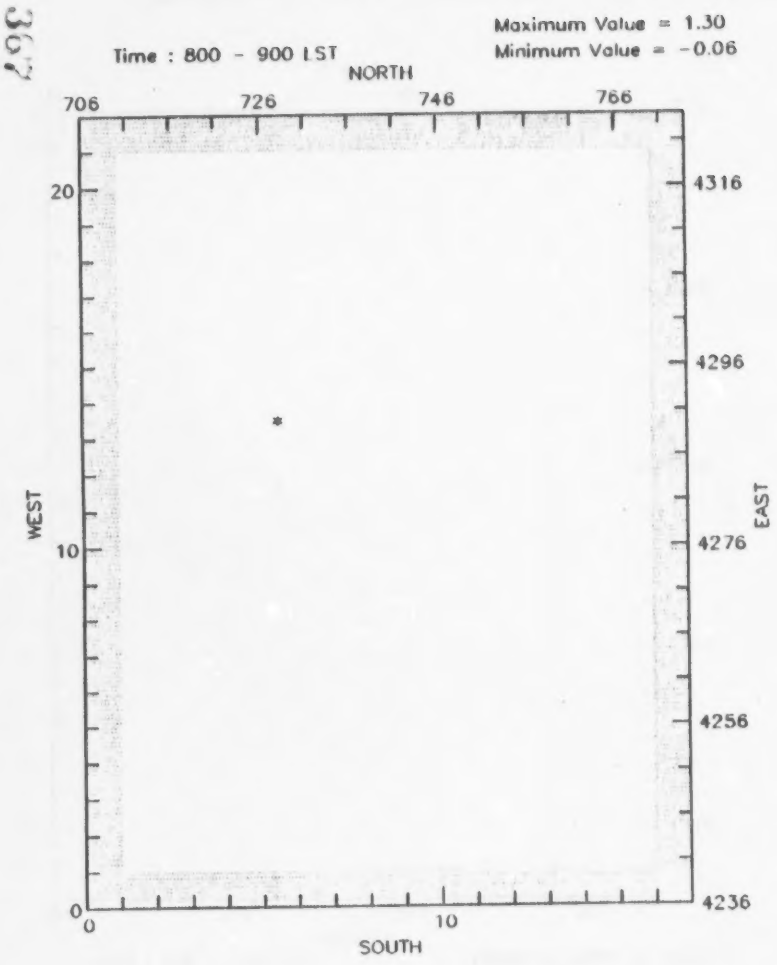
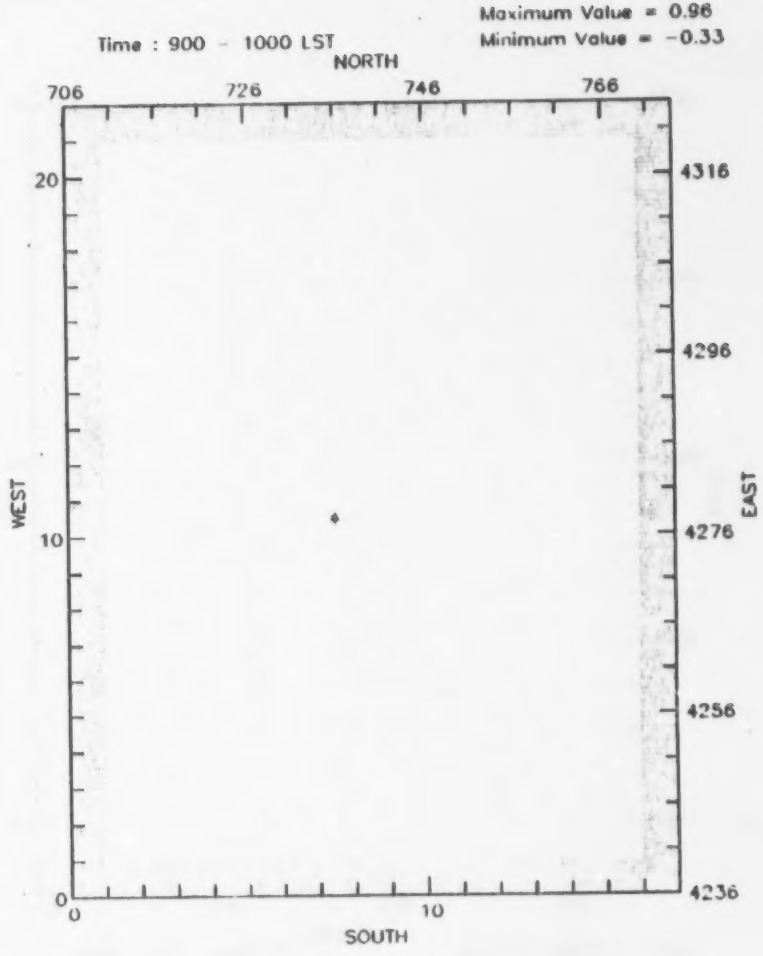
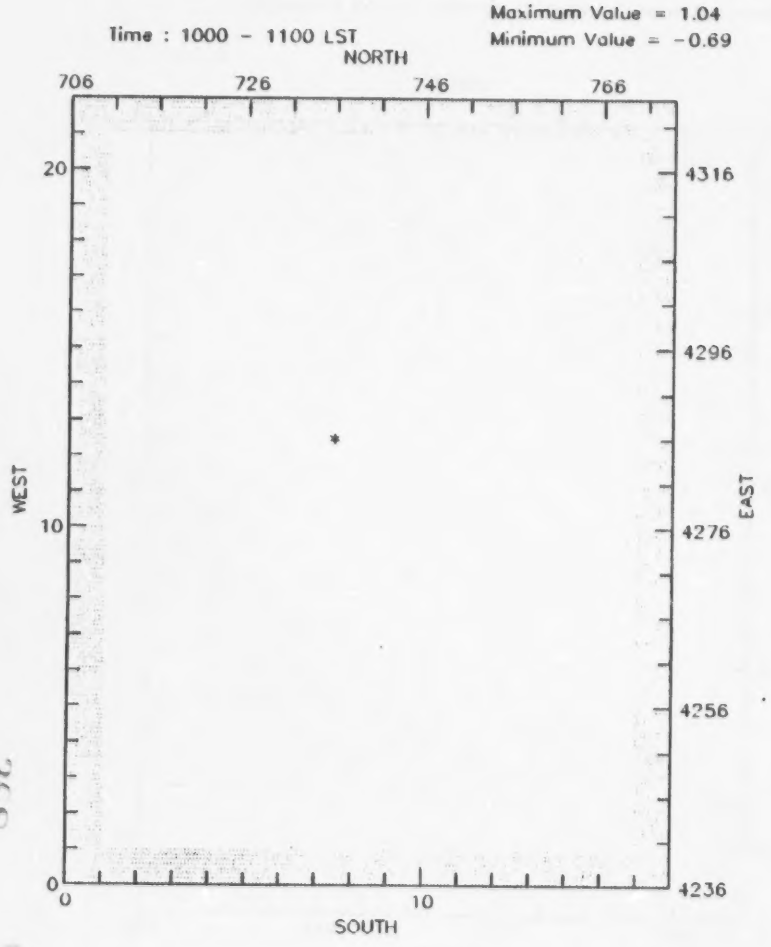
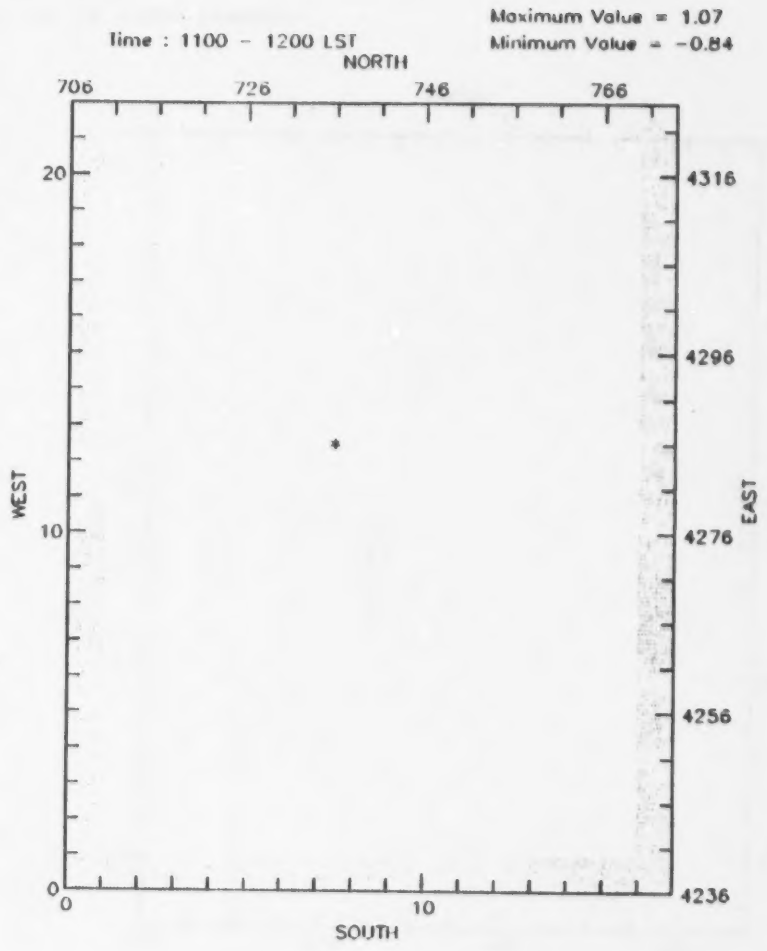


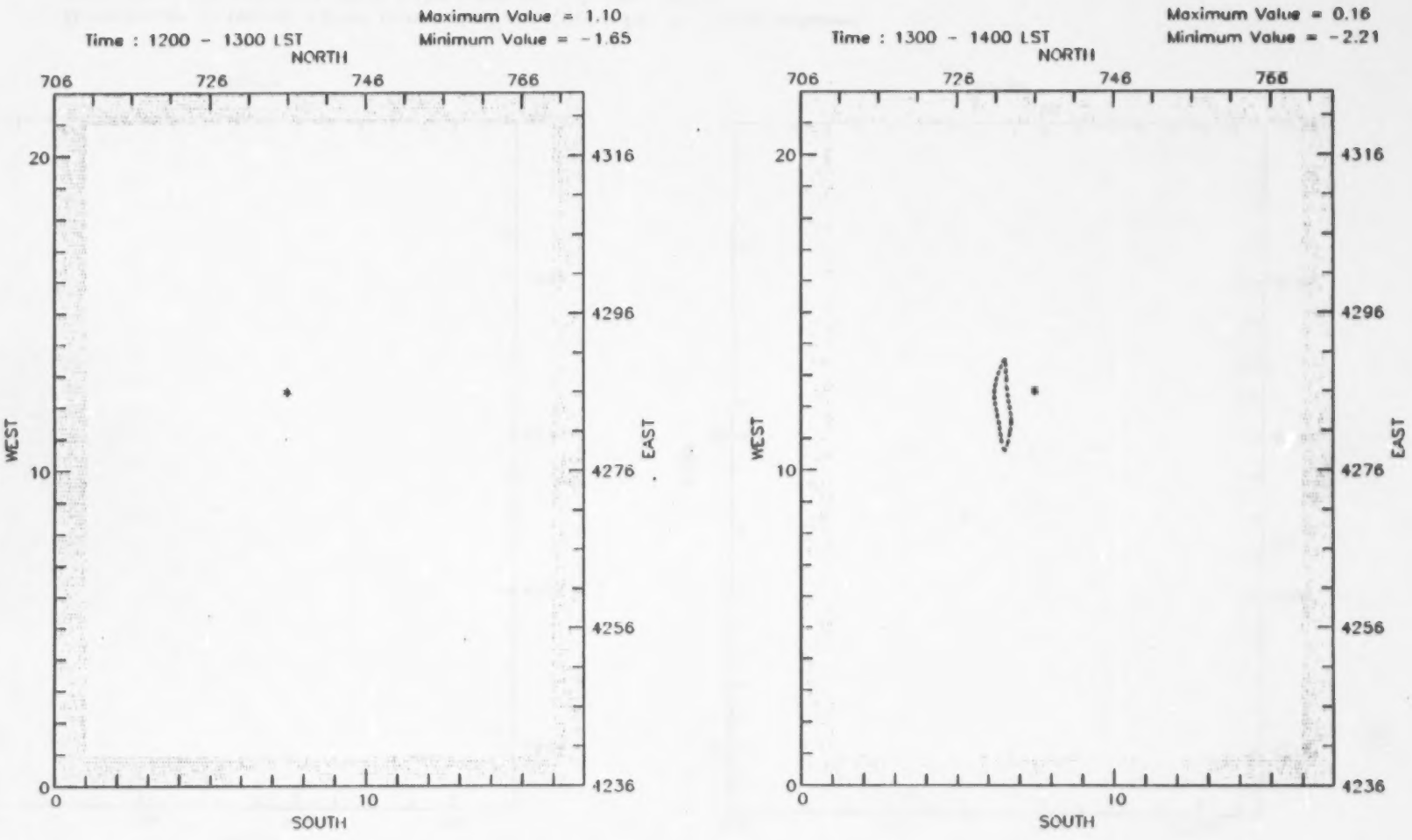


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 new reg gas and 1995 base case on 13 July, 1976.

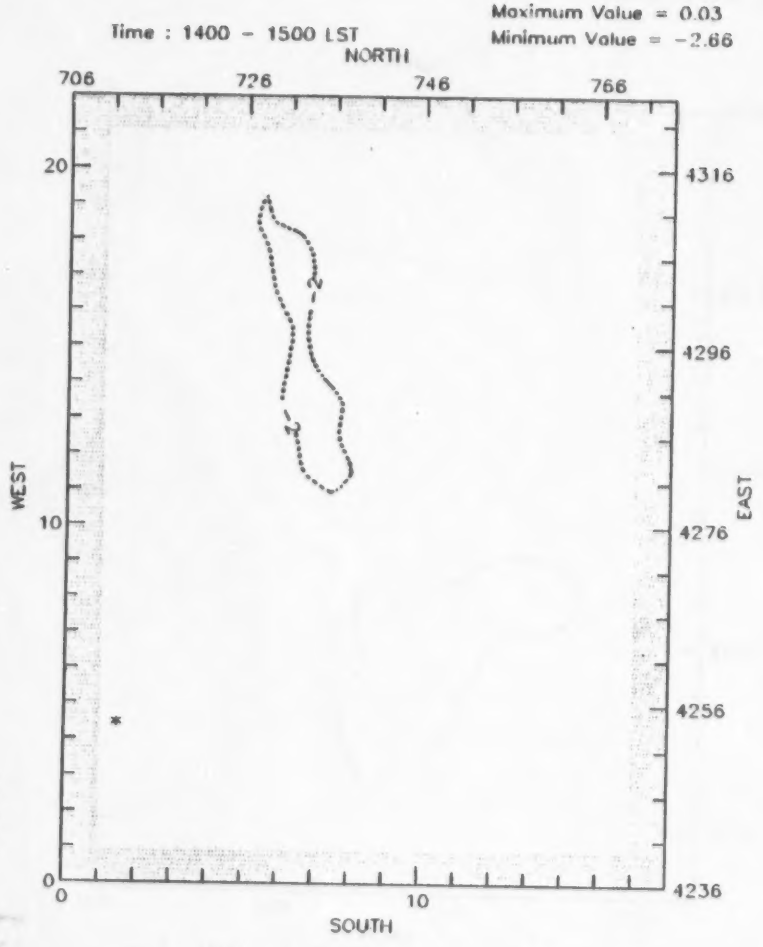


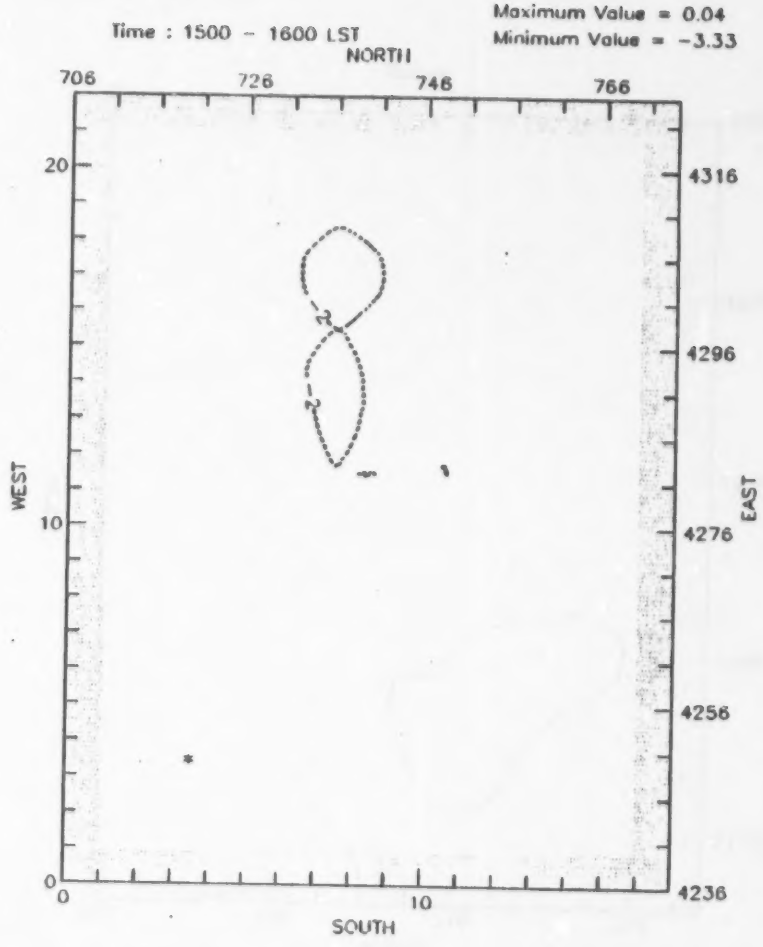


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 new reg gas and 1995 base case on 13 July, 1976.

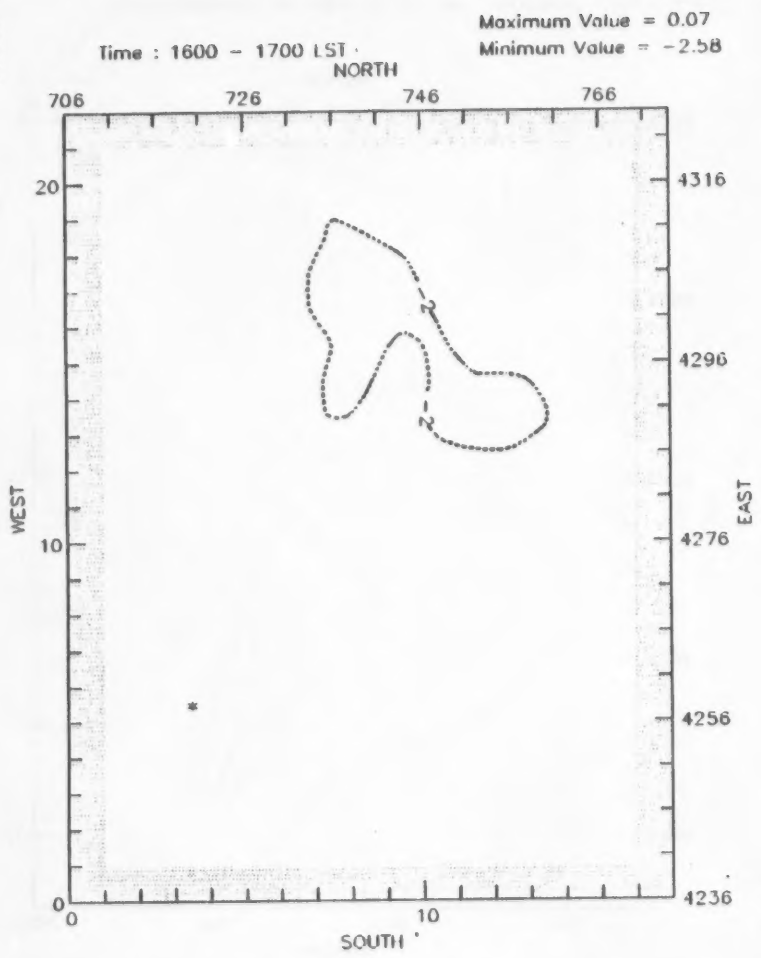


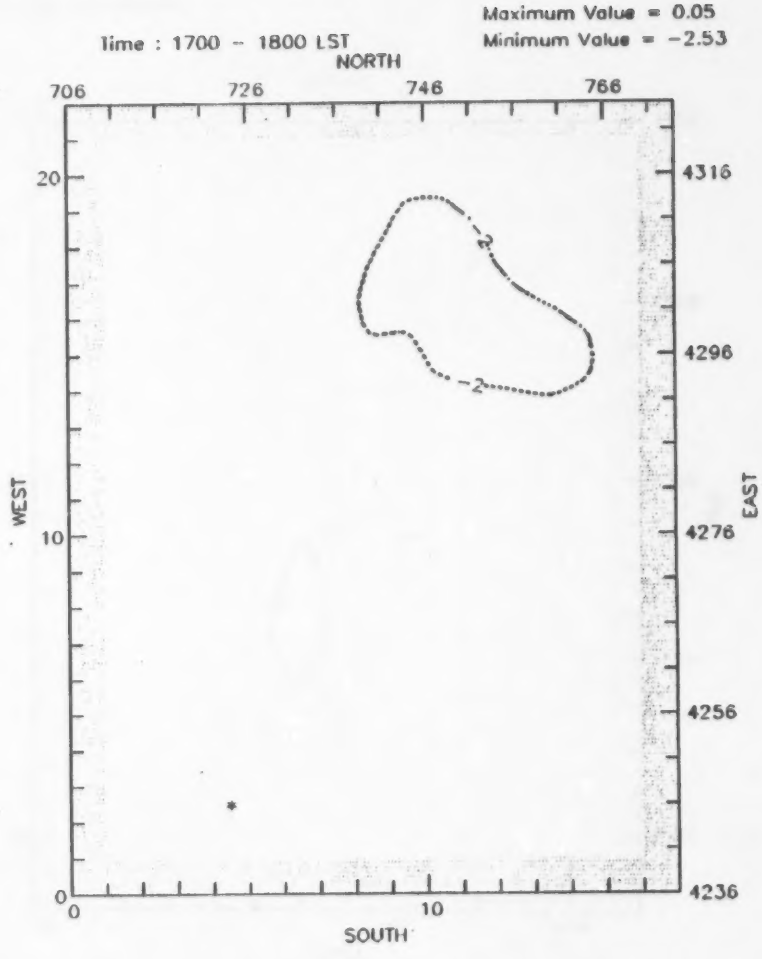
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 new reg gas and 1995 base case on 13 July, 1976.



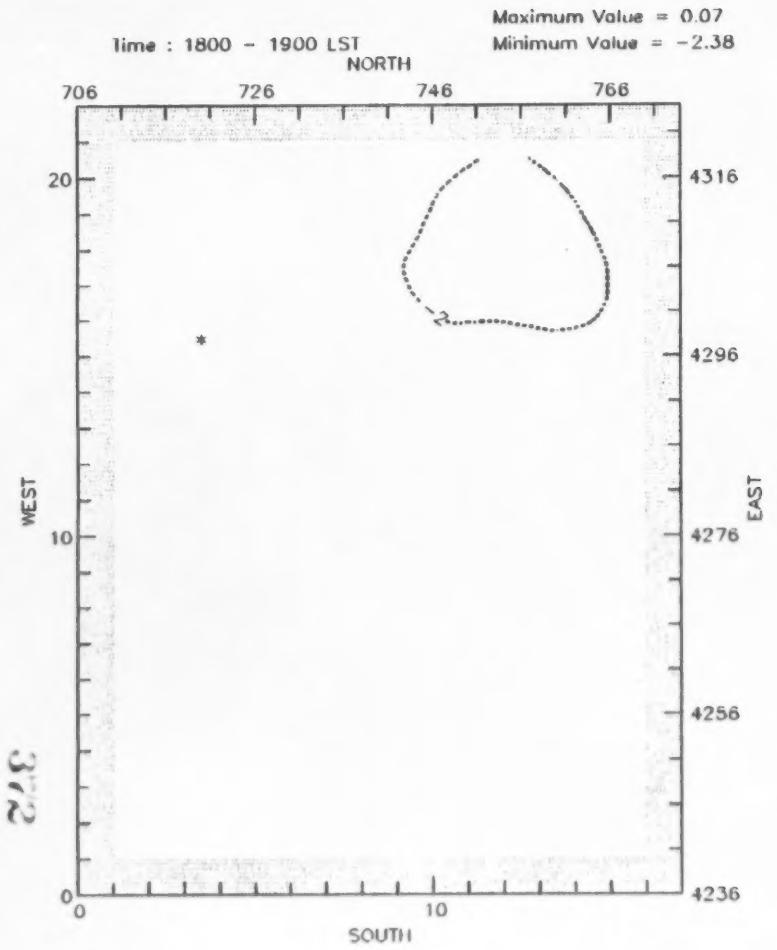


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 new reg gas and 1995 base case on 13 July, 1976.





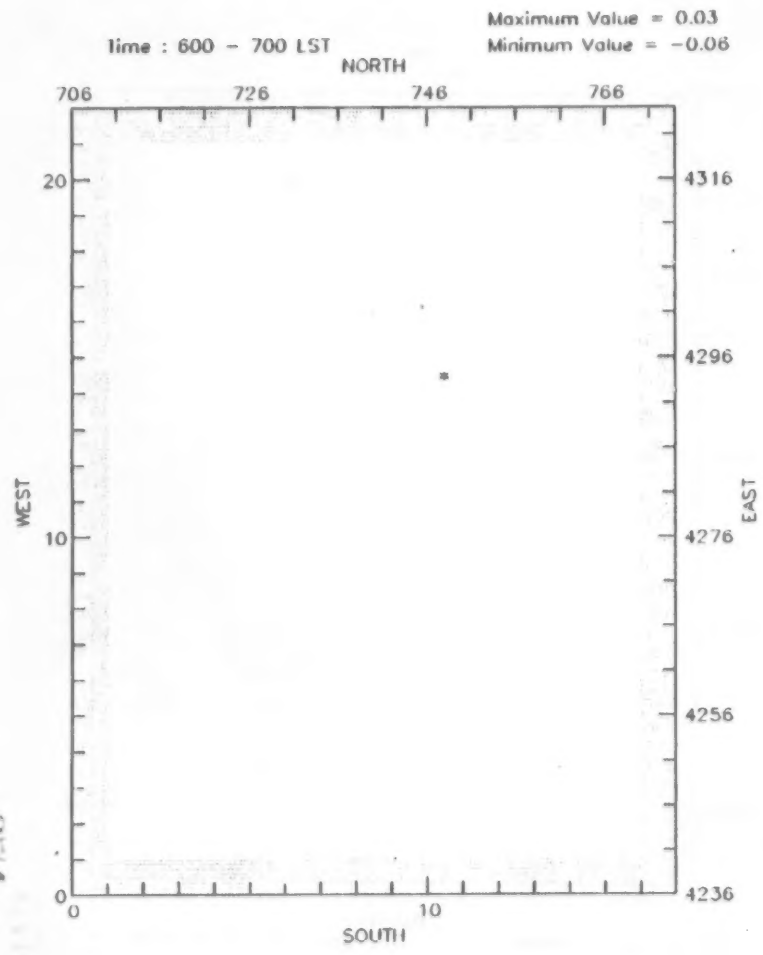
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 new reg gas and 1995 base case on 13 July, 1976.

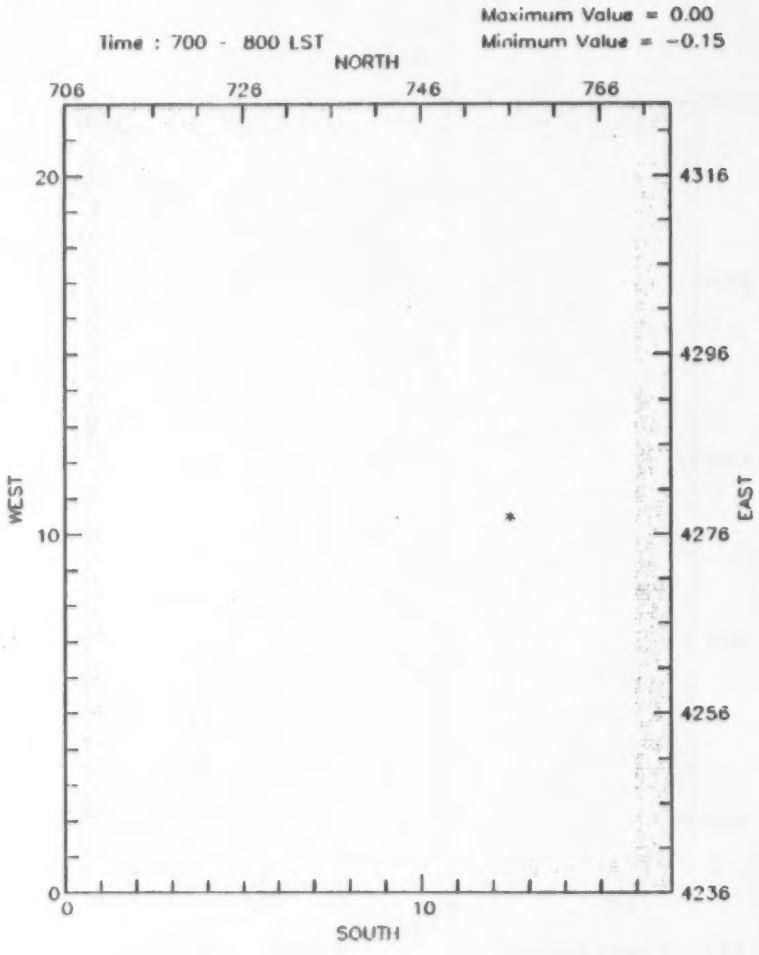


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 new reg gas and 1995 base case on 13 July, 1976.

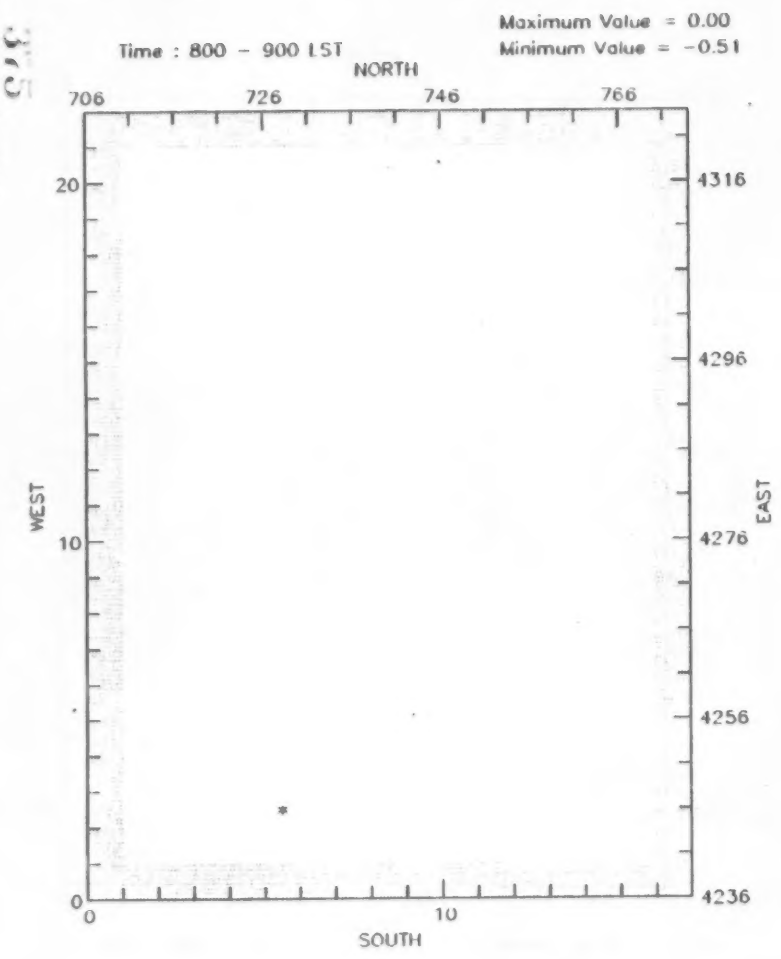
Appendix HH

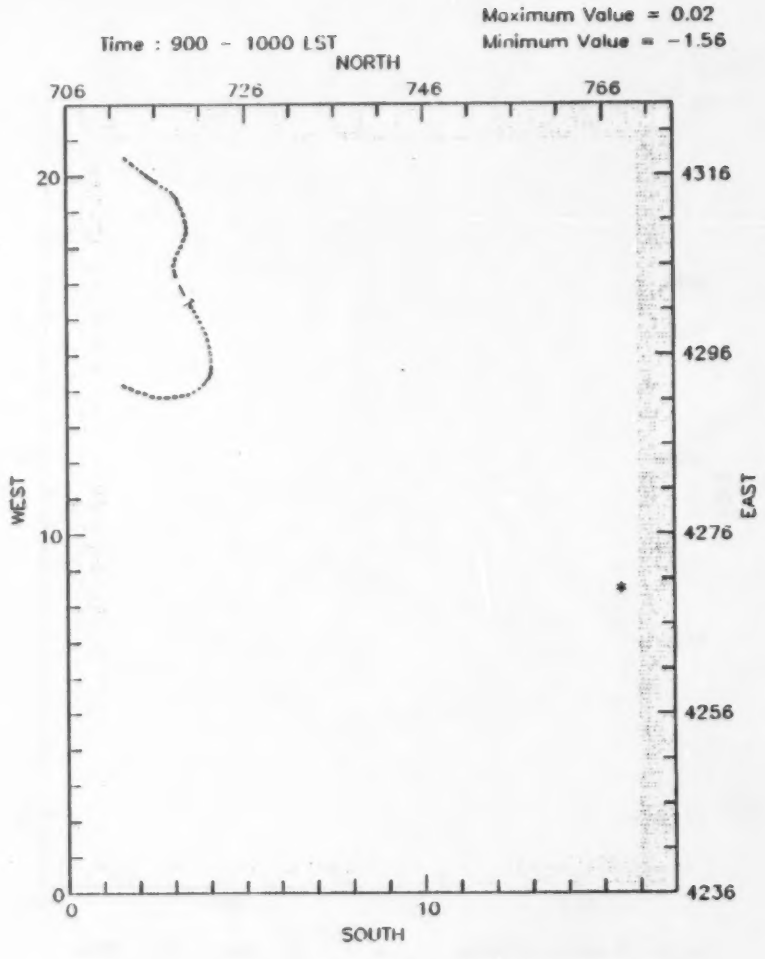
DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) BETWEEN ST. LOUIS 100 PERCENT METHANOL (M100) VEHICLE AND NEW REGULATION GAS VEHICLE EMISSION SCENARIOS (M100 MINUS NEW REGULATION GAS)



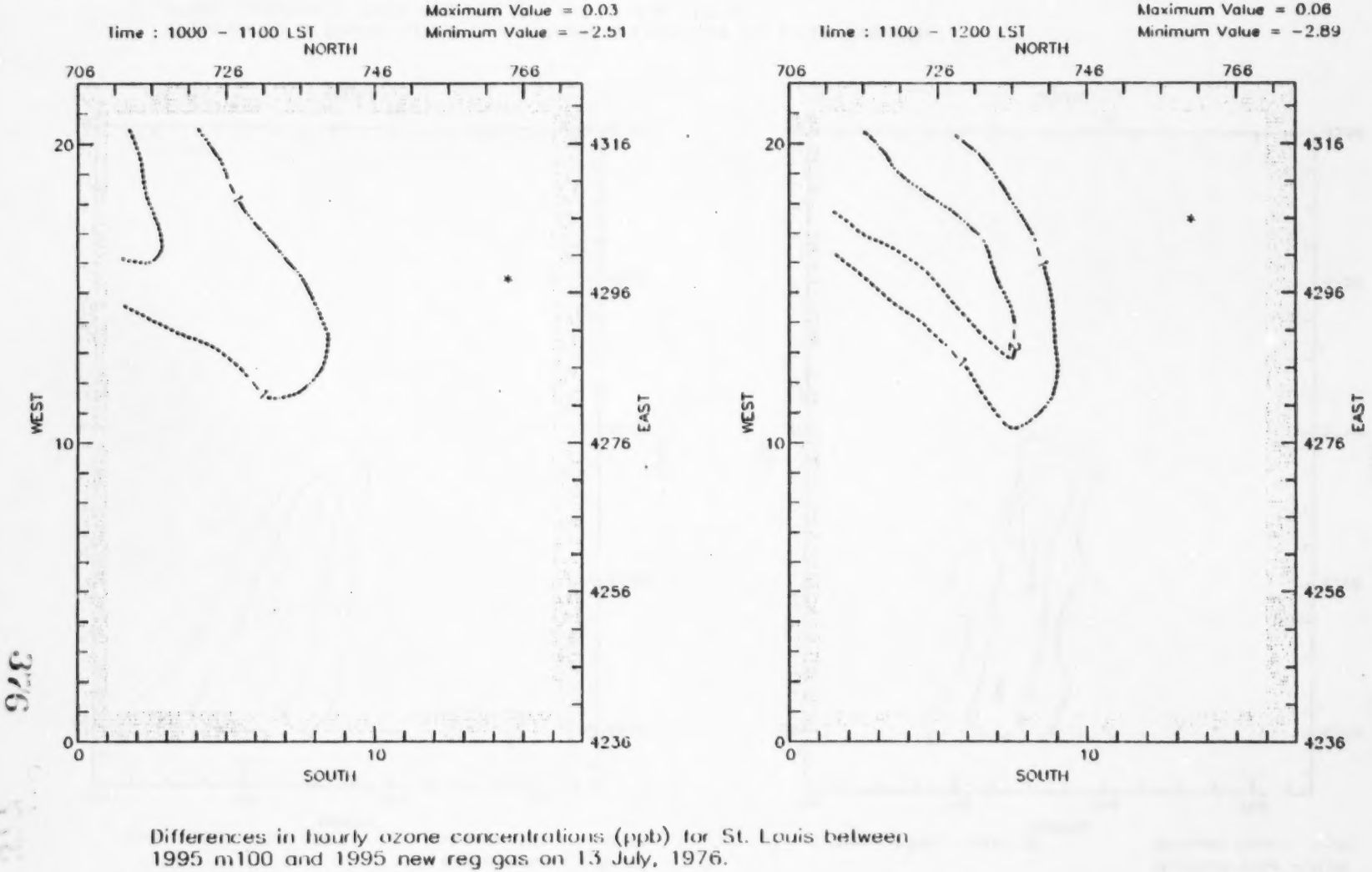


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 m100 and 1995 new reg gas on 13 July, 1976.

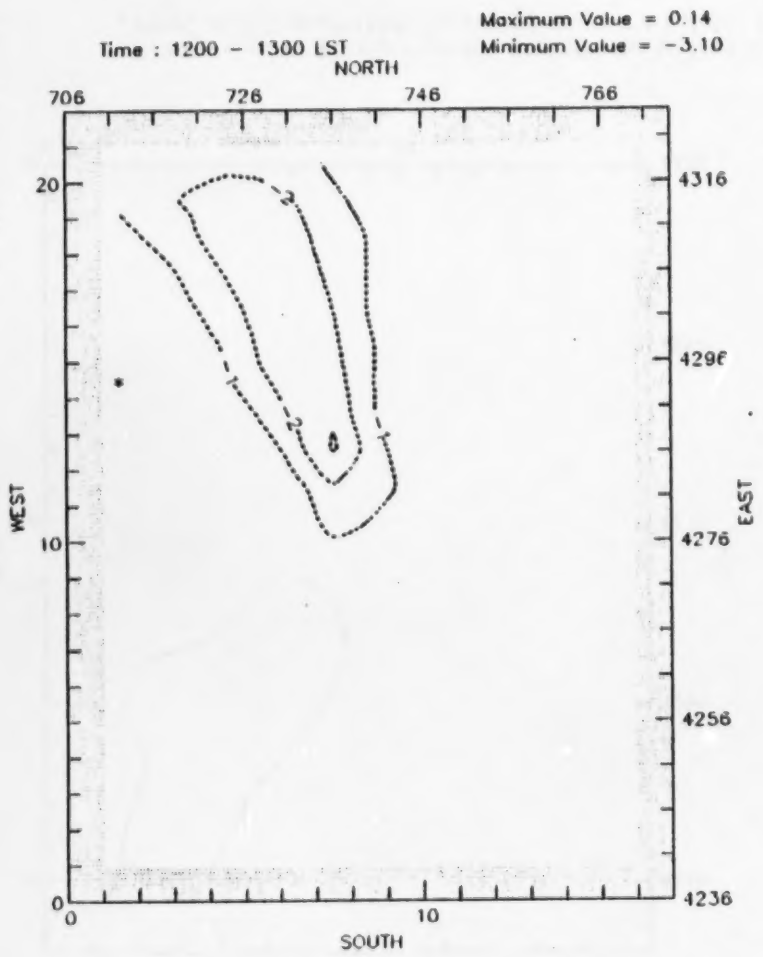


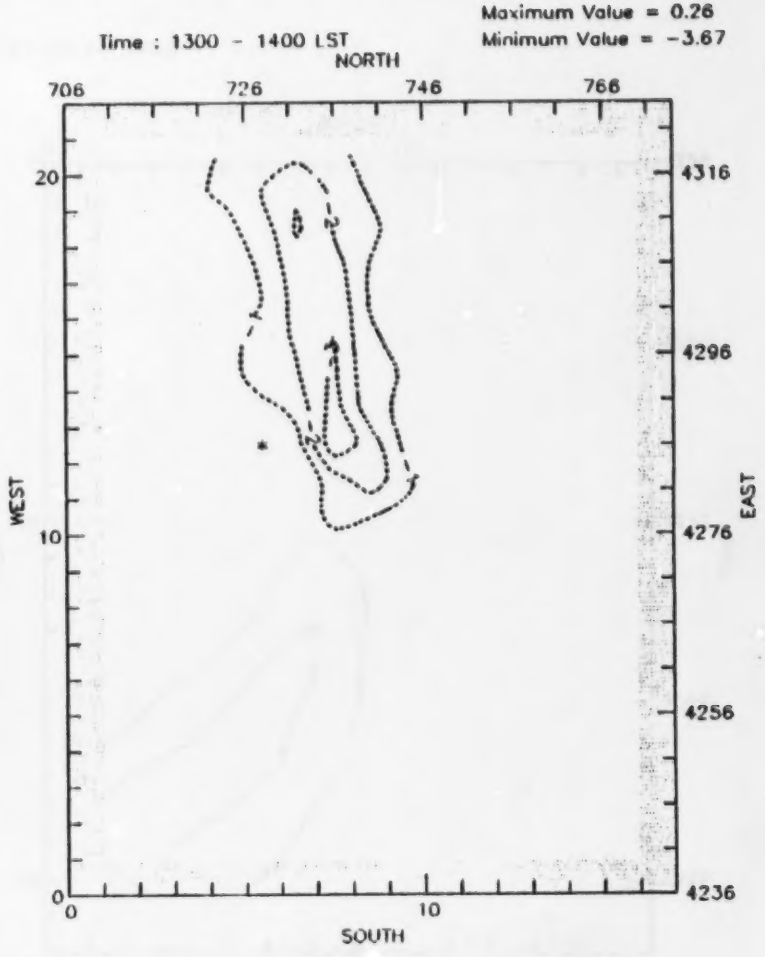


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 m100 and 1995 new reg gas on 13 July, 1976.

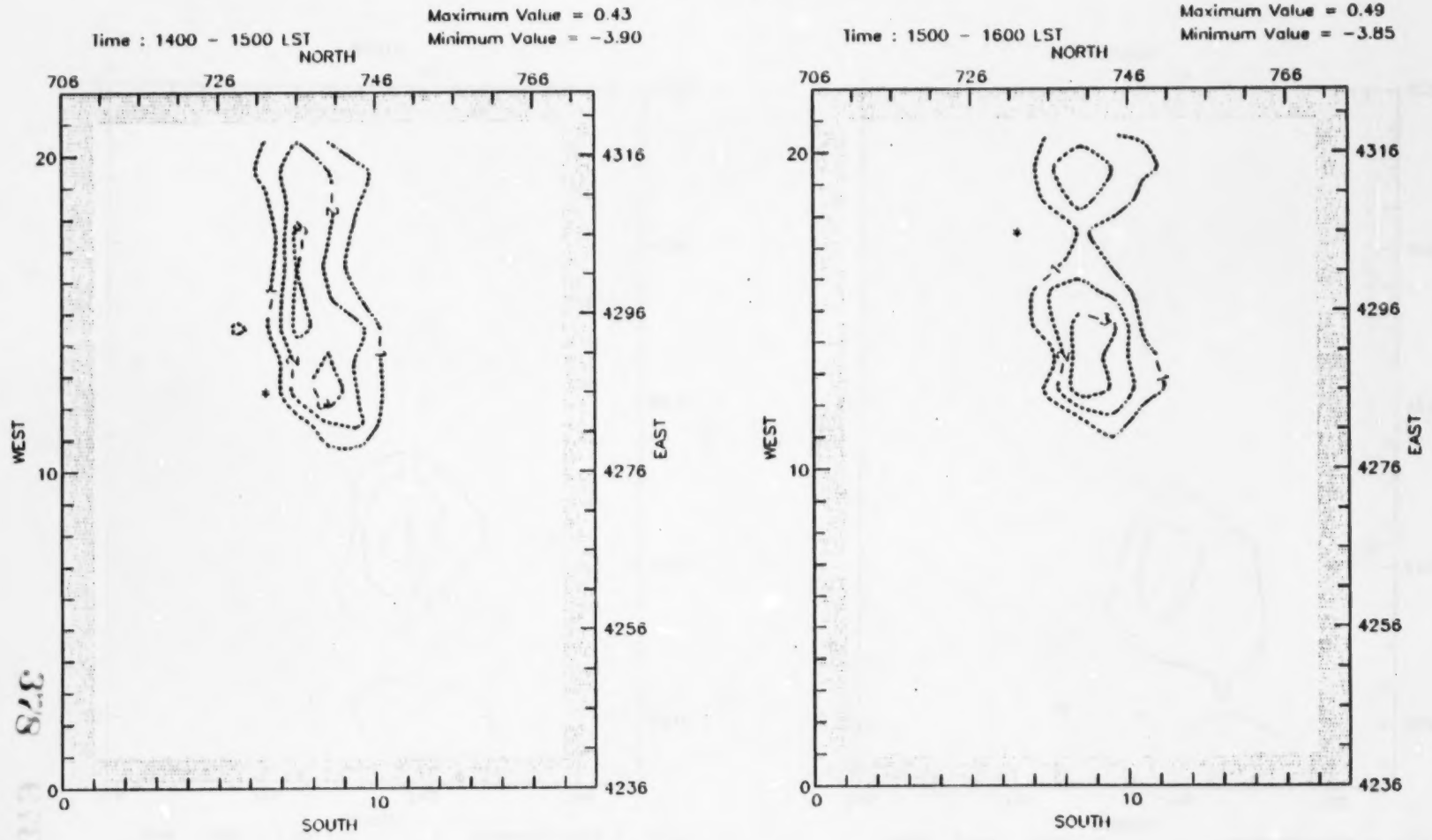


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 m100 and 1995 new reg gas on 13 July, 1976.

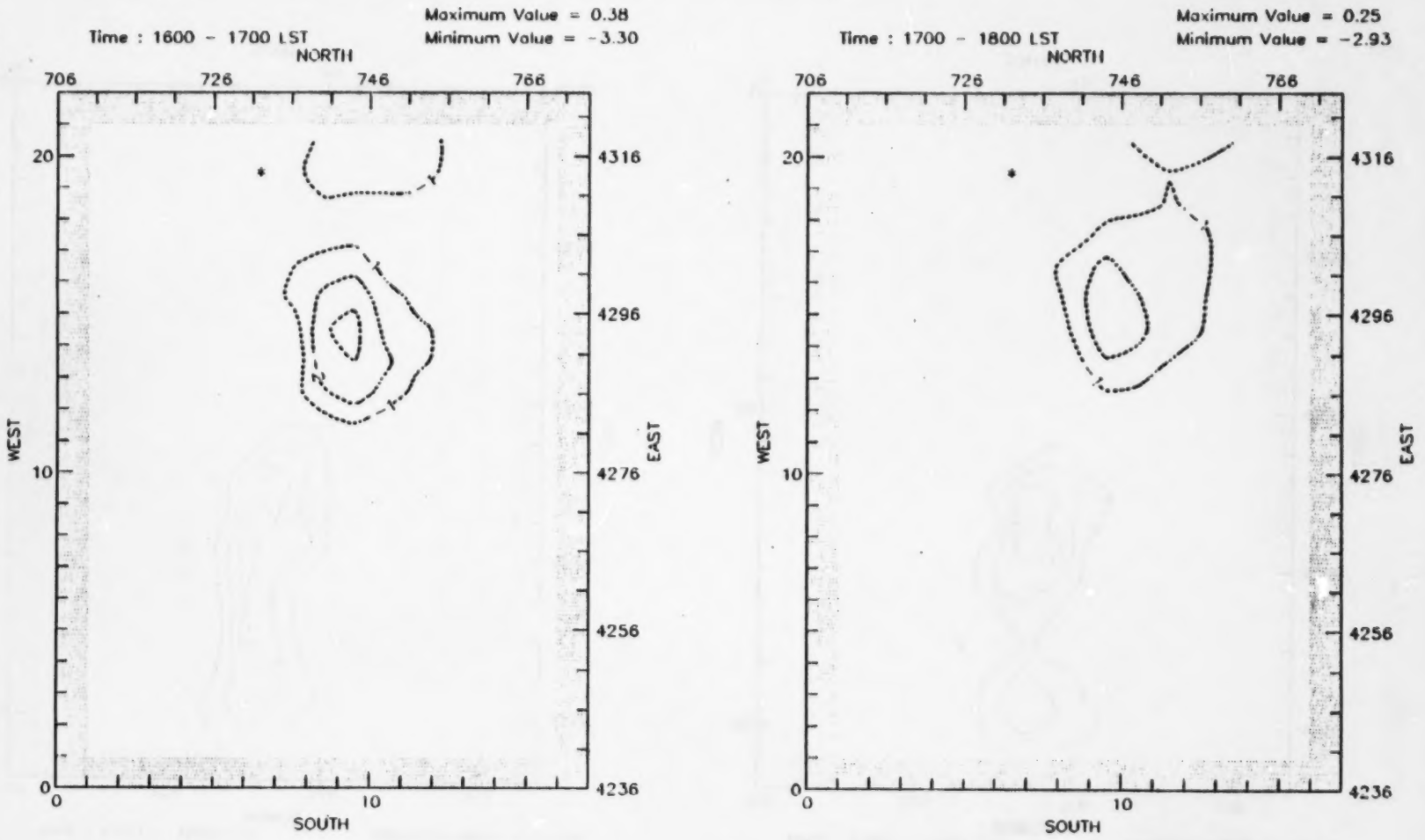




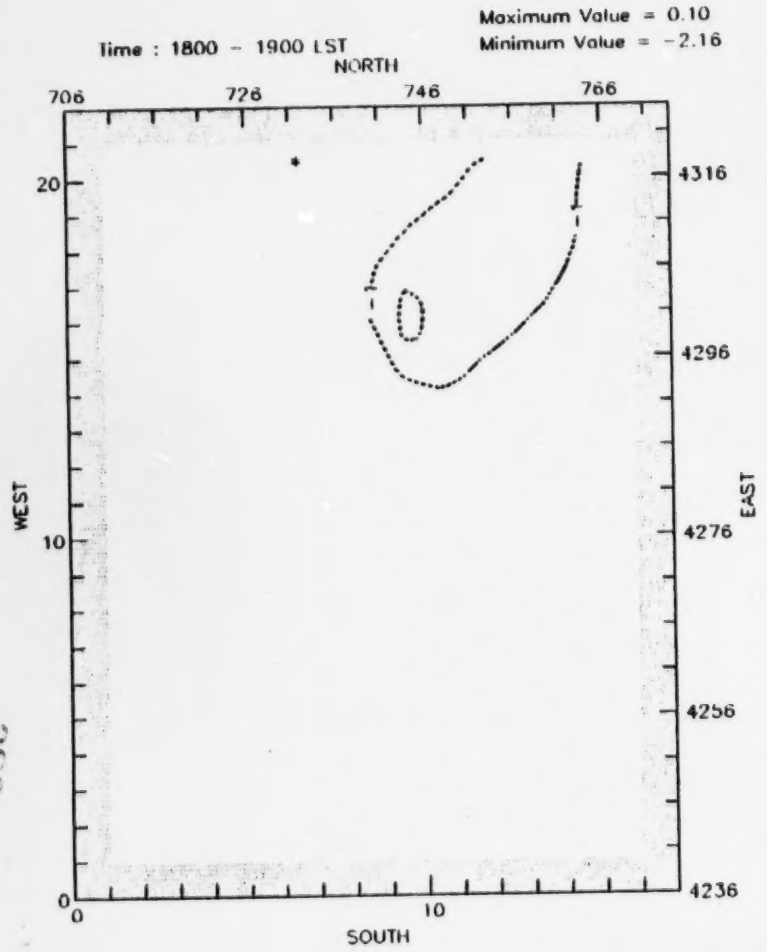
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 m100 and 1995 new reg gas on 13 July, 1976.



Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 m100 and 1995 new reg gas on 13 July, 1976.



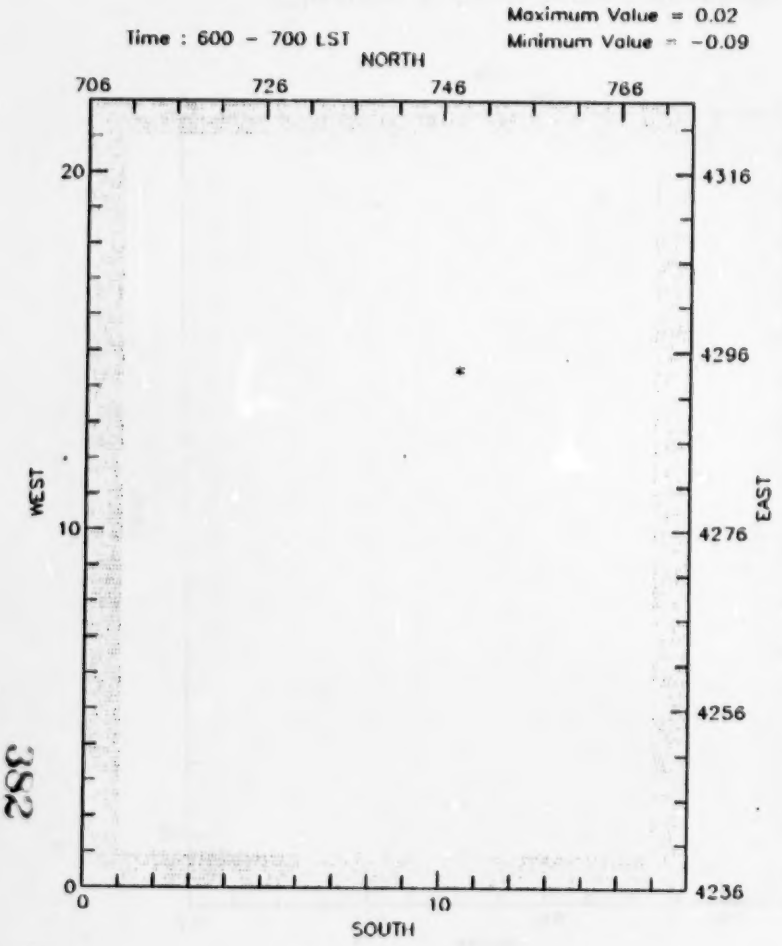
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 m100 and 1995 new reg gas on 13 July, 1976.

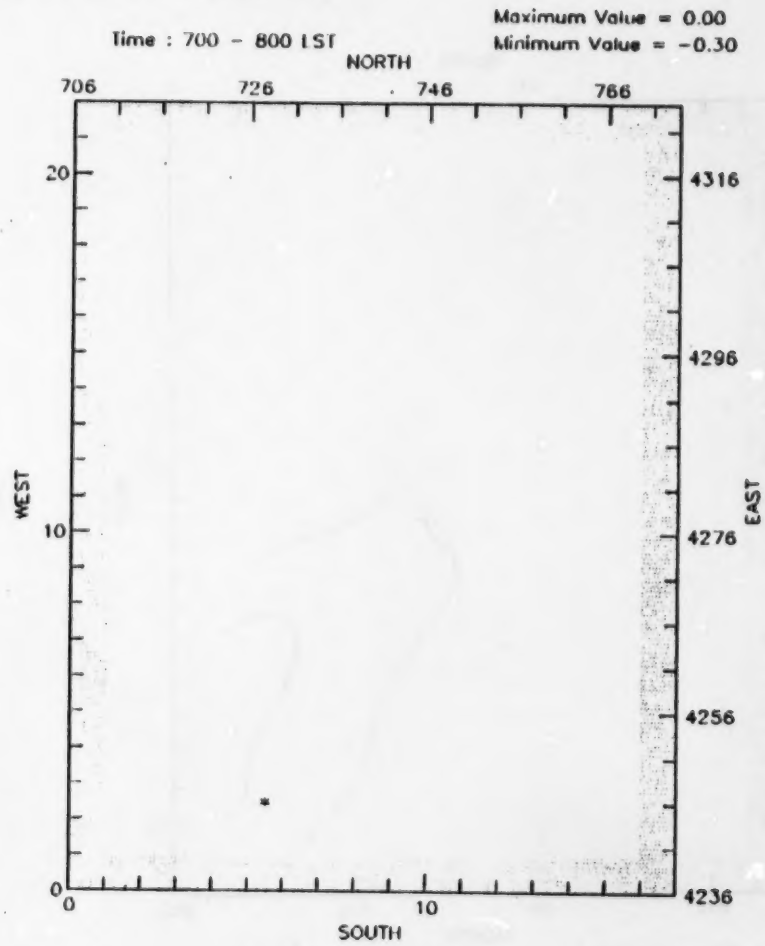


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 m100 and 1995 new reg gas on 13 July, 1976.

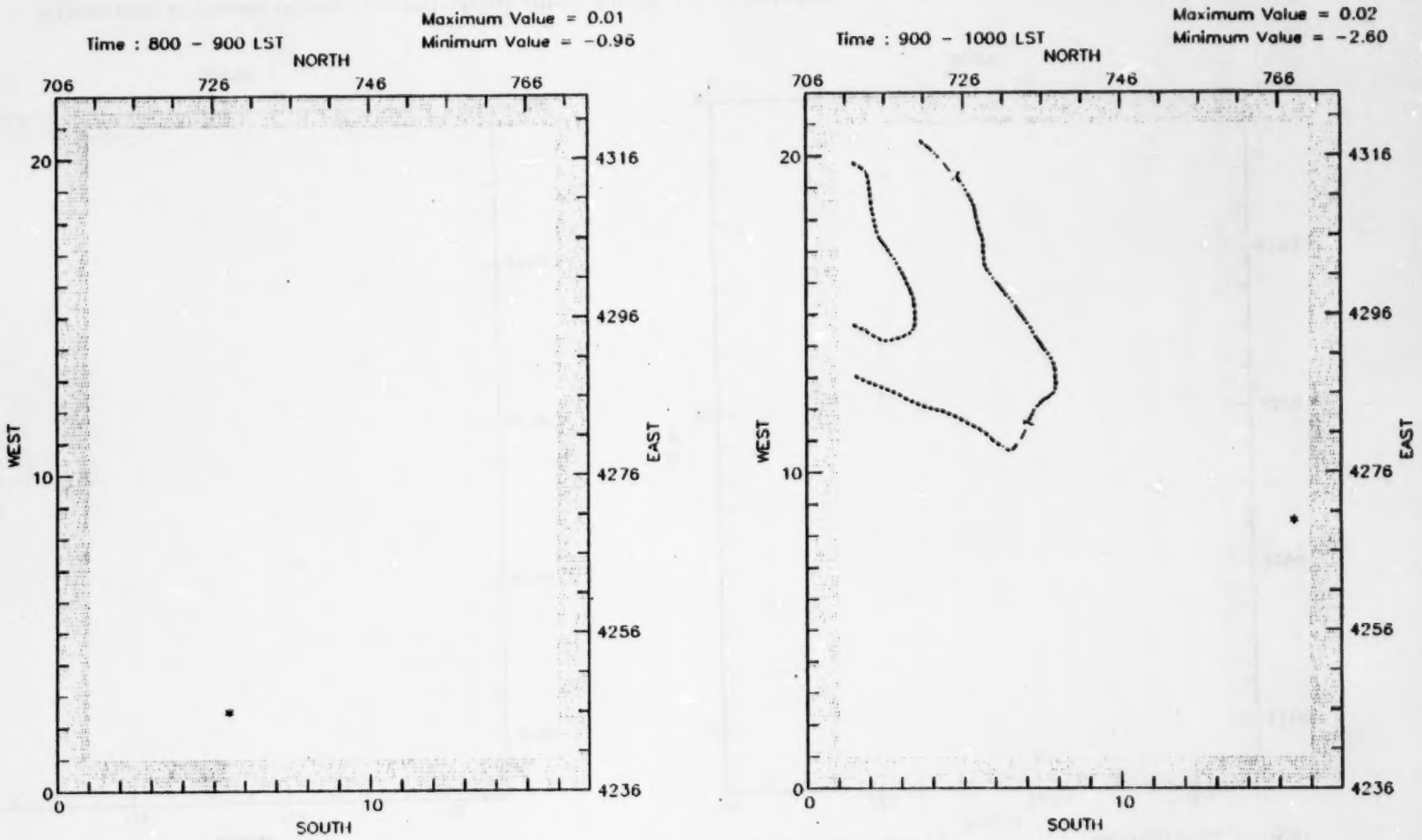
Appendix II

DIFFERENCES IN HOURLY OZONE CONCENTRATIONS (ppb) BETWEEN ST. LOUIS 1995 100 PERCENT COMPRESSED NATURAL GAS (CNG) VEHICLE AND NEW REGULATION GAS VEHICLE EMISSION SCENARIOS (CNG MINUS NEW REGULATION GAS)

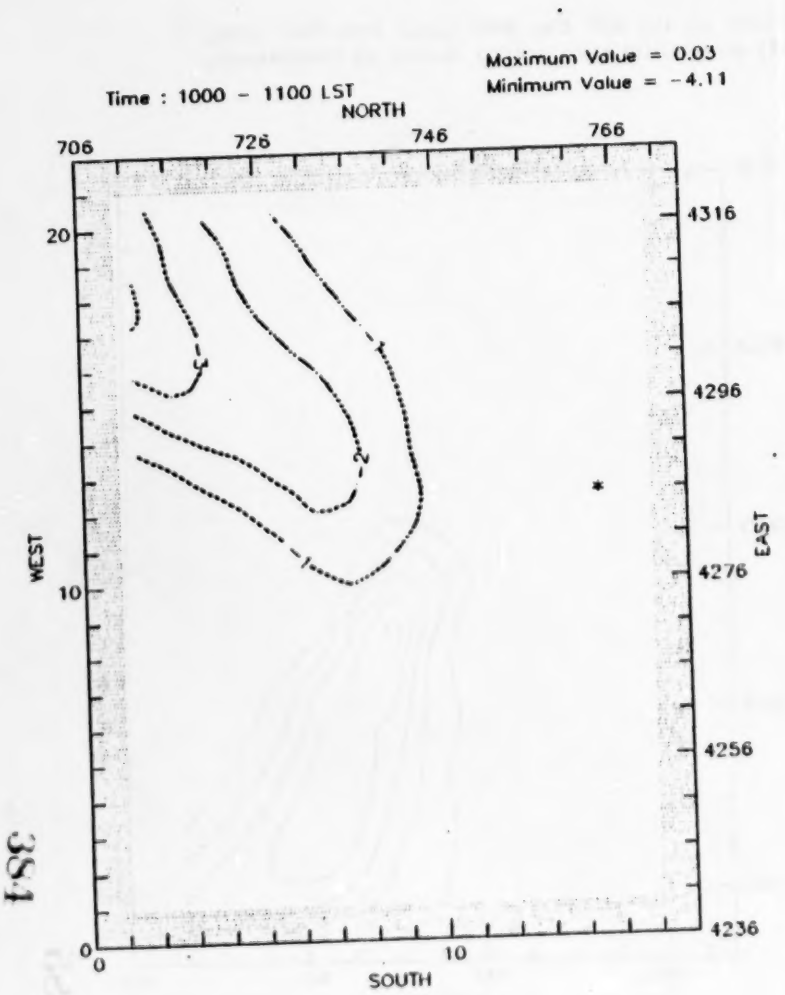


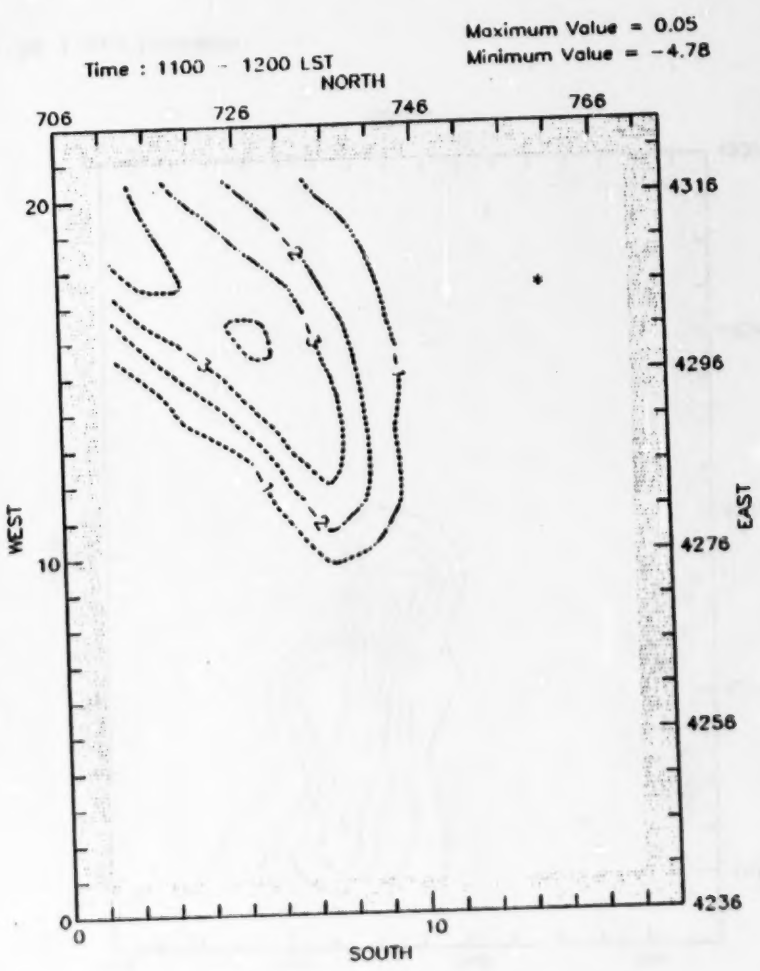


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 cng and 1995 new reg gas on 13 July, 1976.

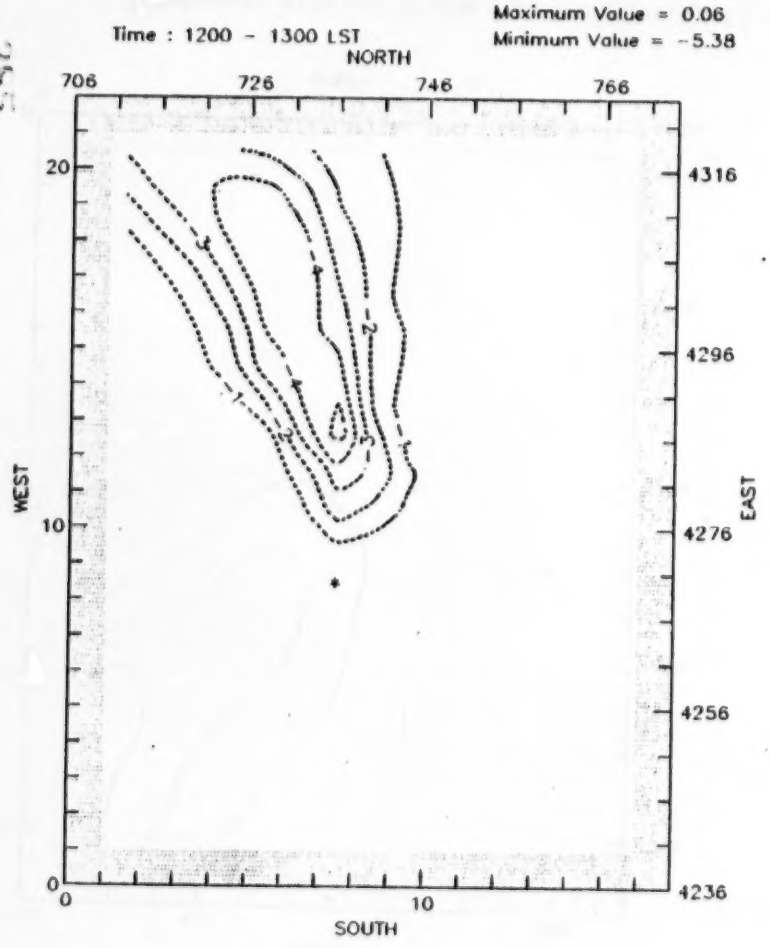


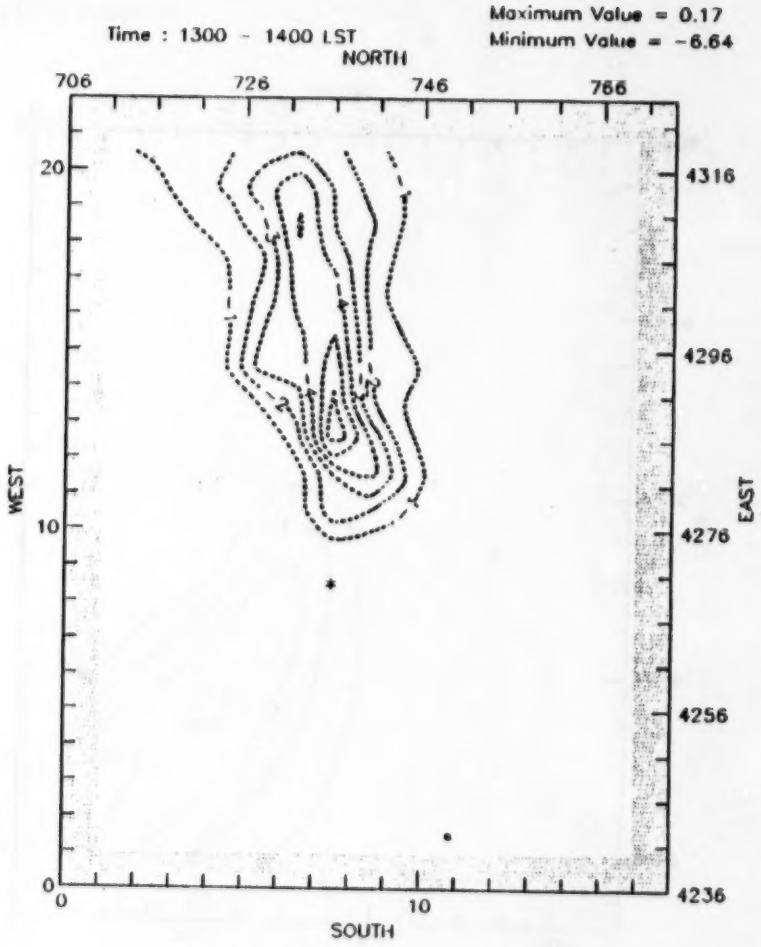
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 cng and 1995 new reg gas on 13 July, 1976.



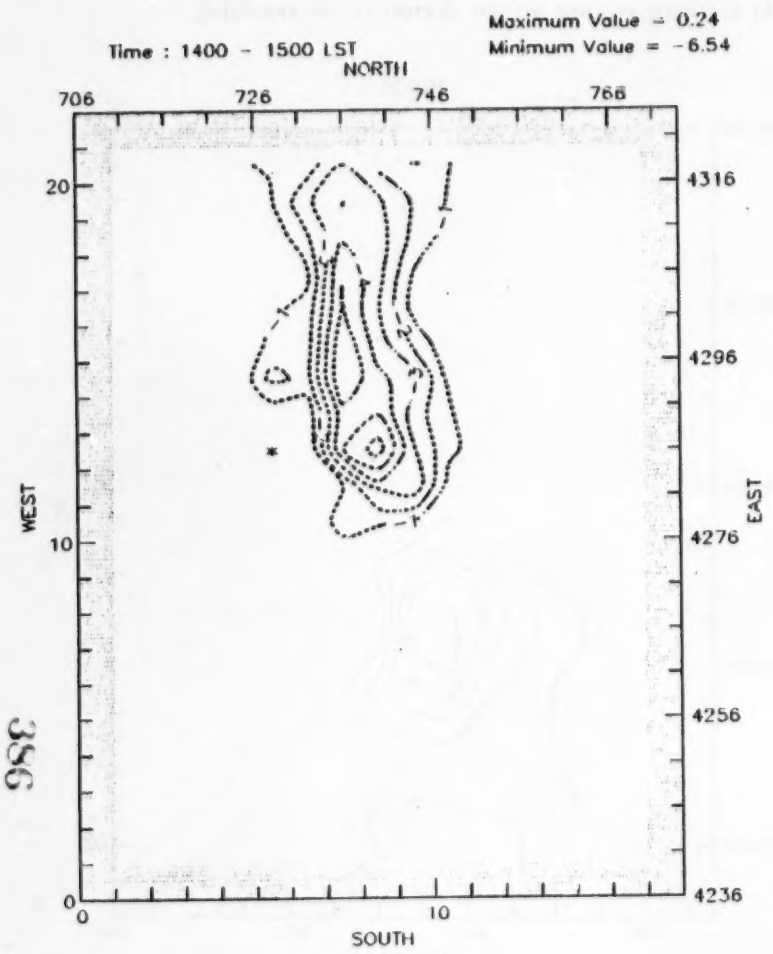


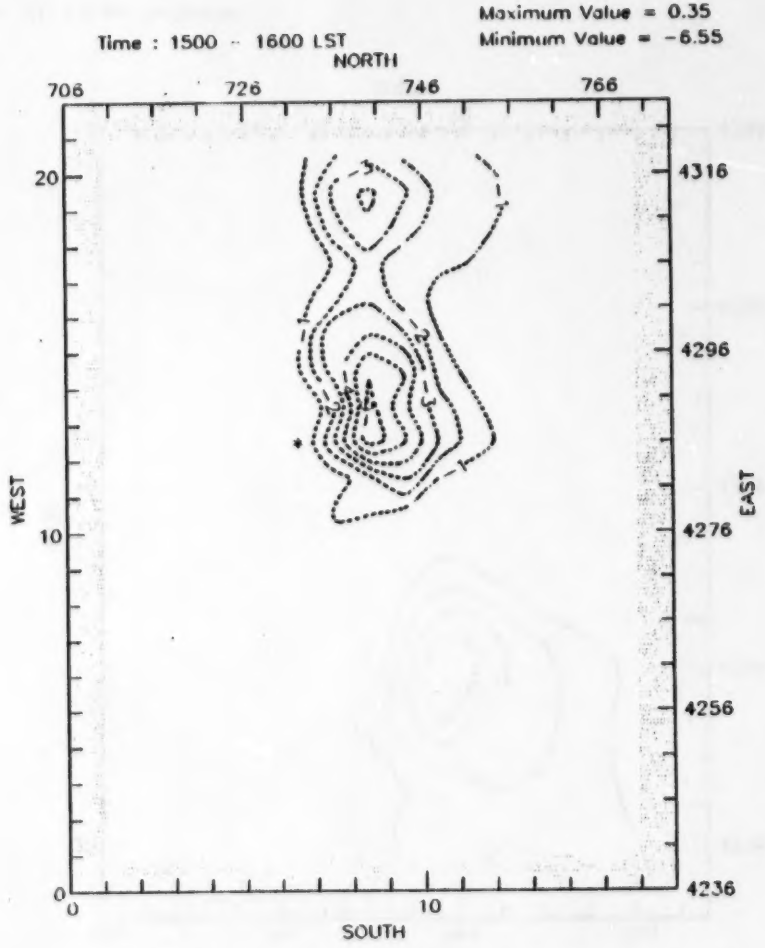
Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 cng and 1995 new reg gas on 13 July, 1976.



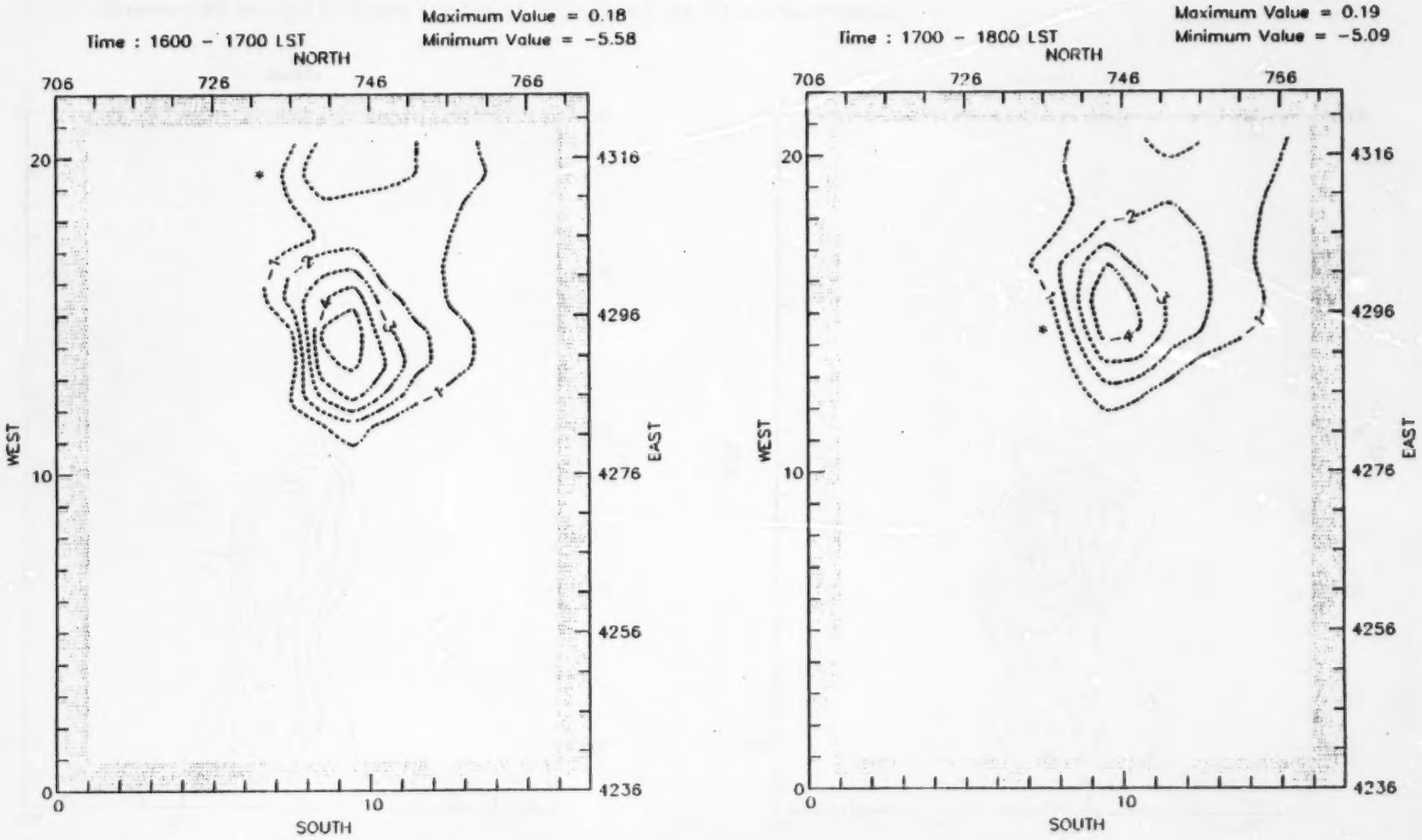


Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 cng and 1995 new reg gas on 13 July, 1976.

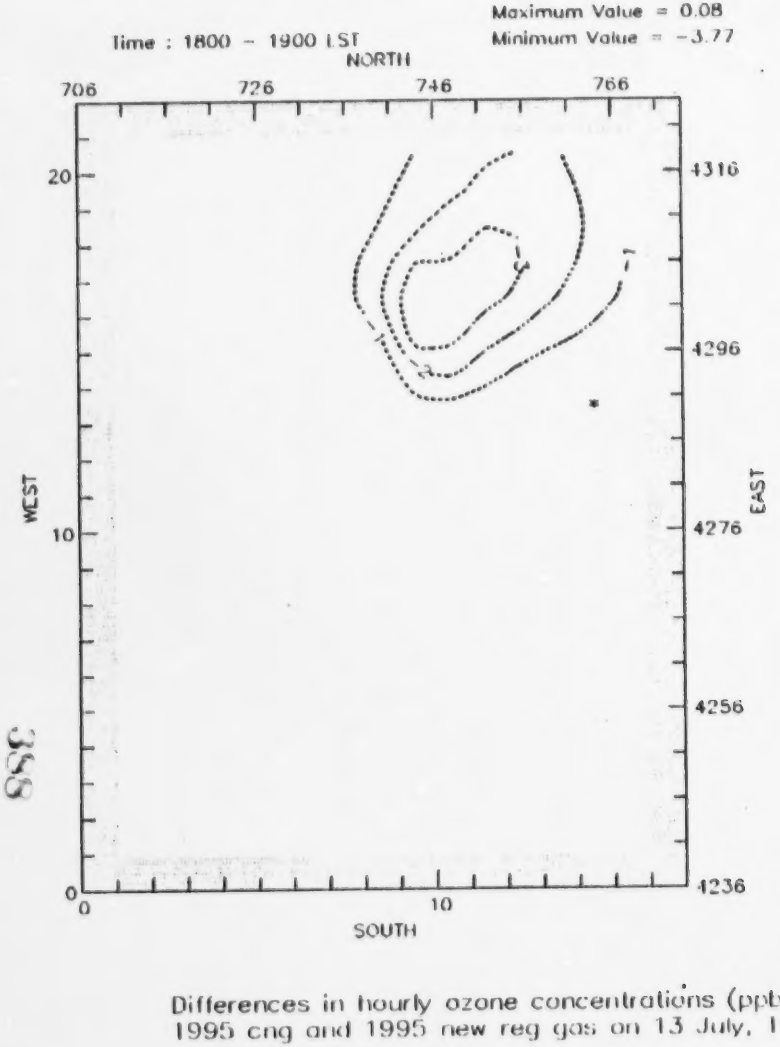




Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 cng and 1995 new reg gas on 13 July, 1976.



Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 cng and 1995 new reg gas on 13 July, 1976.



Differences in hourly ozone concentrations (ppb) for St. Louis between 1995 cng and 1995 new reg gas on 13 July, 1976.